

DC/DC Converters

Isolated

Point-of-Load

Processor Support

Memory Support

If you need a DC/DC converter
look no further than...

The World's No. 1

About Murata Power Solutions

Murata Power Solutions was established by Murata Manufacturing Corporation in September 2007 with its acquisition of the Power Electronics Division of C&D Technologies, Inc. In addition to C&D's extensive offering of DC/DC and AC/DC products, the acquisition also brought with it a comprehensive offering of products and capabilities from market leading companies previously acquired by C&D, including:

DATEL, Inc.

- Medium to high power DC/DCs
- Hybrid technologies
- Digital panel meters

Newport Components Ltd.

- Miniature low power DC/DCs
- Magnetic products

Power Systems Division of Celestica, Inc.

- AC/DC front end power supplies
- Processor power (VRMs)
- PoL DC/DCs

Celab Ltd.

- Power conversion products for hi-rel applications

Murata Power Solutions is currently the World's No.1 supplier of DC/DC converters, and one of the top 5 largest suppliers of power electronics overall, with global sales, manufacturing and design teams operating from facilities in the United States, Canada, China, Japan, Singapore, UK, France and Germany.

Strengthened by a global network of the leading electronics distributors, Murata Power Solutions can effectively support your local and global requirements.

- ✓ *The largest range of DC/DCs from a single manufacturer*
- ✓ *A wide variety of industry-standard configurations*
- ✓ *Modified-standard and custom design service available*
- ✓ *Global sales and technical support*

DC/DC Converters

- Widest range available
- PoL converters
- Isolated single, dual & triple
- Processor & memory support



AC/DC Power Supplies

- Ultra compact
- Up to 2.8kW in 1U height
- High efficiency
- 19" power shelves



Magnetics

- Filtering inductors
- Common-mode chokes
- Current sense transformers
- Databus isolators



Digital Panel Meters

- Ammeters
- Voltmeters
- Process Monitors
- LED & LCD displays



Hybrid Technologies

- Data acquisition systems
- A/D & D/A converters
- Sample-hold amplifiers
- Custom design service



Supplier

How to use this databook

This product databook is designed for the quick identification of suitable DC/DC converters for any given application. It's a simple, four-stage process:

Select the product category from the contents list on this page or use the edge tabs throughout the book.

1

Find your output voltage from the product data tables.

2

Choose a suitable product series for your application using the information shown.

3

Download full data sheets at www.murata-ps.com using the drop-down list at the top of the screen.

4

For the latest products from Murata Power Solutions, see our New Products Catalog at www.murata-ps.com/new/



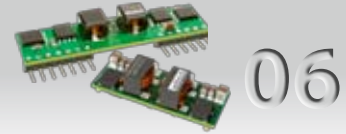
NOTE: If you do not know the output voltage requirement, a **Quick Selection Guide** at the front of most sections lists products according to their output power (Isolated DC/DCs) or output current (PoLs).

Quick Selection Guides:

PoLs	Page 6
Isolated single	Page 09
Isolated dual (bipolar)	Page 23

Contents

PoL Converters



Isolated Single



Isolated Dual/Bipolar



Isolated Dual/Asymmetric



Isolated Triple



Processor Power



Memory Support



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muRata **PS**
Murata Power Solutions

Solutions from AC to IC...

Murata Power Solutions offers a selection of AC/DC Power Supplies, the industry's largest portfolio of DC/DC converters, and an increasing range of filtering inductors and transformers. These product selector guides provide you the choice of our more popular series and can be used together within a variety of power architectures.

1 AC/DC Front End

We also offer cPCI and custom AC/DC options. Contact us for details.

Series	Description	Power Ratings	Input	Output 1	Output 2	Efficiency	Features
D1U4CS	1U height 4" width	2200W	90-264 VAC	12VDC	3.3VDC 5VDC	92.2%	PFC, Active Current-Share, Hot-Plug, I ² C Bus, EMI Class A
D1U-H	1U height 5.5" width	2800W	170-264 VAC	-52VDC	12VDC	91.6%	
D1U4	1U height 4" width	1600W 1200W	90-264 VAC	12VDC	3.3VDC 5VDC	90.6%	PFC, Active Current-Share, Hot-Plug, I ² C Bus, EMI Class A
D1U	1U height 4.75" width	2000W 1600W 1200W	90-264 VAC	12VDC 48VDC	3.3VDC 5VDC 12VDC		
C1U	1U height 5.5" width	1200W	90-264 VAC	12VDC 48VDC	3.3VDC 5VDC 12VDC		
CEF400	1U height 4" x 7"	400W	85-264 VAC	12VDC	5VDC	83%	PFC, Current Share, ORing FET, EMI Class B



2 Isolated DC/DC

See opposite page.

3 PoL

Output Current	5Vin		12Vin		24Vin
	SMT	SIP	SMT	SIP	SMT
	3A	OKY 		OKL OKY 	OKR
5A	OKY 		OKY 		
6A	OKL/OKL2 		OKL/OKL2 	OKR 	
10A	OKY/OKY2 	OKX/OKX2 	OKY/OKY2 	OKR OKX/OKX2 	
16A	OKY/OKY2 	OKX/OKX2 	OKY/OKY2 	OKX/OKX2 	
30A			LSM2 	LSN2 	



4 Processor Power

Murata Power Solutions offers a range of processor power modules that support both Intel and AMD devices.

- Intel support for VRM 9.1, VRM 10.1/10.2, VRM 11.0 and VRM 11.1
- AMD support for K8 processors

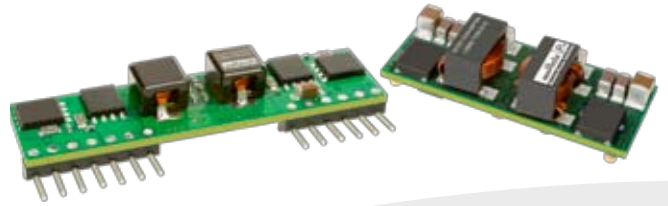
5 Memory Power

DDR1, DDR2, DDR3, and DDR termination PoLs are available with current ratings from 9A to 70A.



Point-of-Load

Non-Isolated DC/DC Converters



Murata Power Solutions offers more non-isolated, point-of-load (PoL) DC/DCs, in standard packages and pinouts, than any other company.

Our PoL output voltages range from 0.75 to 6V at current levels from 2 to 50A. Input voltages are centered around traditional 3, 5 and 12V levels, with some devices operating

from 7.5 to 40V. Standard packages include SMT models (6-16A), SIPs (6-16 A), and 1/8-bricks (25A).

The newest SMT and SIP models offer user-selectable outputs (0.75-5.5V) while operating from wide-range inputs (2.4-5.5V or 8.3-14V). For many applications, they can be genuine “one-size-fits-all” solutions.

PoLs may be powered from AC/DC converters and DC/DC regulators, among other design options. Also, many designers find them a quick, cost-effective solution when isolation is not required and in-house designs are too expensive and time consuming.

Quick Selection Guide Listed by output current

Output Current	Series	Input Voltage			Output Voltage										Package Type				
		3	5	12	0.8	1.0	1.2	1.5	1.8	2	2.5	3.3	5	User Selectable	SIP	DIP	SMT	BRK	
2A	NGA	4.75-28V																	
2-3A	UNR 3.6-10W	4.75-5.5		10.8-13.6															
2.5-3A	UNR 8-40W	4.75-5.5		10.8-13.2															
3A	OKI 15W				16-40										0.7525-5.5				
	OKL 9.9W	2.4-5.5													0.6-3.63				
	OKL 15W			4.5-14											0.591-5.5				
	OKR 15W			4.5-14											0.591-6.0				
	OKY 9.9W	2.4-5.5													0.7525-3.63				
	OKY 15W			8.3-14											0.75-5.5				
5A	OKY 16.5W	2.4-5.5													0.7525-3.63				
	OKY 25W			8.3-14											0.75-5.5				
	UNR 25-50W			10.8-13.6															
	NCA	3.0-5.5													0.75-3.63				
6A	NEA			8.3-14.0											0.75-5.0				
	OKL 19.8W	2.4-5.5													0.6-3.3				
	OKL 30W			4.5-14											0.591-5.5				
8A	OKR 30W			4.5-14											0.591-6.0				
	UNR 8-40W			4.75-5.5															
8 & 10A	UNR 15-25W	3.0-3.6																	
10A	LSS			6-14											0.59-5.0				
	NCF	3.0-5.0																	
	NEA			8.3-14.0											1.00-5.0				
	NEF			8.3-14.0															
	NFA			6.0-14.0											0.75-5.0				
	OKR 50W			4.5-14											0.591-6.0				
	OKX 33W	2.4-5.5													0.7525-3.63				
	OKX 50W			8.3-14											0.7525-5.5				
	OKY 33W	2.4-5.5													0.7525-3.63				
	OKY 50W			8.3-14											0.7525-5.5				
12A	UNR 30-40W	4.75-5.5																	
15A	NCA	3.0-5.5												0.75-3.3					
15-20A	UNR 30-66W	4.75-5.5																	
16A	NFA			6.0-14.0											0.75-5.0				
	OKX 52.8W	2.4-5.5													0.7525-3.63				
	OKX 80W			8.3-14											0.7525-5.5				
	OKY 52.8W	2.4-5.5													0.7525-3.63				
20A	OKY 80W			8.3-14										0.7525-5.5					
25A	NFA			6.0-14.0										0.75-5.0					
25A	HEN			10.2-13.8															

Output Characteristics			Input Voltage			Efficiency	Package Style							Package Dimensions						Further Information	
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.		Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com
							1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W	D		

User-selectable output voltages

0.6 - 3.63V	3A	9.9W	5V	2.4V	5.5V	95%									0.48	0.48	0.24	12.2	12.2	6.2	OKL-T/3-W5x-C	OKL-T/3-W5
						94%									0.47	.082	.028	11.9	20.8	7.0	OKY-T/3-W5x-C	OKY-T/3, T/5-W5
		5A	16.5W	5V	3V	5.5V	92%								0.24	0.8	0.45	6.1	20.3	11.3	NCA005133x50C	NCA005
				2.4V			94%								0.47	.082	.028	11.9	20.8	7.0	NCA005133x80C	
		6A	19.8W	5V	2.4V	5.5V	94%								0.48	0.48	0.28	12.2	12.2	7.2	OKL-T/6-W5x-C	OKL-T/6-W5
		10A	33W	5V	2.4V	5.5V	96%								0.5	2.0	0.37	12.7	50.8	9.4	OKX-T/10-W5x-C	OKX-T/10, T/16-W5
							95%								0.53	1.3	0.33	13.5	33	8.3	OKY-T/10-W5x-C	OKY-T/10, T/16-W5
		15A	49.5W	5V	3V	5.5V	94%								0.34	1.3	0.53	8.6	33	13.5	NCA015133x50C	NCA015
															0.5	2.0	0.33	12.7	50.8	8.3	NCA015133x80C	
		16A	52.8W	5V	2.4V	5.5V	95%								0.5	2.0	0.37	12.7	50.8	9.4	OKX-T/16-W5x-C	OKX-T/10, T/16-W5
														0.53	1.3	0.33	13.5	33	8.3	OKY-T/16-W5x-C	OKY-T/10, T/16-W5	

0.519 - 5.5V	3A	15W	12V	4.5V	14V	93%									0.48	0.48	0.24	12.2	12.2	6.2	OKL-T/3-W12x-C	OKL-T/3-W12
				8.3											0.41	0.65	0.22	10.4	16.5	5.6	OKR-T/3-W12-C	OKR-T/3-W12
				24V	16V	40V	88%								0.47	0.82	0.34	11.9	20.8	8.5	OKY-T/3-D12x-C	OKY-T/3, T/5-D12
															0.47	0.82	0.34	11.9	20.8	8.5	OKI-T/3-W40x-C	OKI-T/3-W40
		5A	25W	12V	8.3V	14V	92%								0.24	0.8	0.45	6.1	20.3	11.3	NEA005150x50C	NEA005
							93%								0.4	0.9	0.22	10.1	22.9	5.6	NEA005150x80C	
		6A	30W	12V	4.5V	14V	93%								0.47	.082	.028	11.9	20.8	7.0	OKY-T/5-D12x-C	OKY-T/3, T/5-D12
							96%								0.48	0.48	0.28	12.2	12.2	7.2	OKL-T/6-W12x-C	OKL-T/6-W12
															0.41	0.65	.030	10.4	16.5	7.6	OKR-T/6-W12-C	OKR-T/6-W12
				4.5V			92%								0.41	0.65	0.30	10.4	16.5	7.6	OKR-T/10-W12-C	OKR-T/10-W12
				6V		14V	95%								0.35	1.3	0.53	8.8	33	13.5	NFA01015x50C	NFA010
															0.51	2.0	0.33	13.0	50.8	8.3	NFA01015x80C	
		10A	50W	12V			95%								2.0	0.50	.037	50.8	12.7	9.4	OKX-T/10-D12x-C	OKX-T/10, T/16-D12
															1.30	0.53	0.33	33	13.5	8.4	OKY-T/10-D12x-C	OKY-T/10, T/16-D12
							95%								0.34	1.3	0.53	8.6	33	13.5	NEA010150x50C	NEA010
															0.5	2.0	0.33	12.7	50.8	8.3	NEA010150x80C	
															0.35	1.3	0.53	8.8	33	13.5	NFA016150x50C	NFA016
															0.51	2.0	0.33	13.0	50.8	8.3	NFA016150x80C	
		16A	80W	12V	6V	14V	94%								2.0	0.50	0.37	50.8	12.7	9.4	OKX-T/16-D12x-C	OKX-T/10, T/16-D12
							94%								1.30	0.53	0.33	33	13.5	8.4	OKY-T/16-D12x-C	OKY-T/10, T/16-D12
														0.37	1.7	0.53	9.3	43.2	13.5	NFA020150x50C	NFA020	
	20A	100W	12V	6V	14V	94%								0.51	2.4	0.33	13.0	61	8.3	NFA020150x80C		

Fixed output voltages

Output Characteristics			Input Voltage			Efficiency	Package Style							Package Dimensions						Further Information	
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.		Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com
							1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W	D		

0.8V	25A	20W	12V	10.2V	13.8V	85%									0.39	2.30	0.9	9.9	58.4	22.9	HEN-0.8/25-D12-C	HEN-D12
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1V	10A	10W	5V	3V	5.5V	86%									0.5	2.0	0.33	12.7	50.8	8.3	NCF0100100B0C	NCF010	
			12V	8.3V	14V	84%										0.34	1.3	0.53	8.6	33.0	13.5	NEF0100101S0C	NEA-NEF010-SMT
															0.5	2.0	0.33	12.7	50.8	8.3	NEF0100101B0C	NEA-NEF010-SMT	
	25A	25W	12V	10.2V	13.8V	85%									0.39	2.30	0.9	9.9	58.4	22.9	HEN-1/25-D12-C	HEN-D12	
	10A	12W	5V	3V	5.5V	88%										0.5	2.0	.033	12.7	50.8	8.3	NCF0100120B0C	NCF010
			12V	8.3V	14V	86%										0.34	1.3	0.53	8.6	33.0	13.5	NEF0100121S0C	NEA-NEF010-SIP
														0.5	2.0	0.33	12.7	50.8	8.3	NEF0100121B0C	NEA-NEF010-SIP		
25A	30W	12V	10.2V	13.8V	85%									0.39	2.30	0.9	9.9	58.4	22.9	HEN-1.2/25-D12-C	HEN-D12		

Output Characteristics			Input Voltage			Efficiency	Package Style						Package Dimensions						Further Information				
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.		Bricks		SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com			
							1/8	1/4					1/2	H	W	D	H	W			D		
1.5V	10A	15W	3.3V	3V	3.6V	83.5							0.39	2.00	1.00	12.5	50.8	25.4	UNR-1.5/10-D3-C	UNR15-25W			
			5V	3V	5.5V	89%								0.5	2.0	0.33	12.7	50.8	8.3	NCF0100150B0C	NCF010		
			12V	8.3V	14V	89%								0.34	1.3	0.53	8.6	33.0	13.5	NEF010015150C	NEA-NEF010-SIP		
	25A	37.5W	12V	10.2V	13.8V	87%							0.5	2.0	0.33	12.7	50.8	8.3	NEF0100151B0C	NEA-NEF010-SIP			
													0.39	2.30	0.9	9.9	58.4	22.9	HEN-1.5/25-D12-C	HEN-D12			
1.8V	2A	3.6W	5V	4.8V	5.5V	79%							0.45	1.00	1.00	11.4	25.4	25.4	UNR-1.8/2-D5-C	UNR3.6-10W			
			15V	4.8V	28V	89%								0.267	0.825	0.846	6.8	21.0	21.5	NGA10S15018DC	NGA		
													0.846	0.220	0.825	21.5	5.6	21.0	NGA10S15018SC				
	10A	18W	3.3V	3V	3.6V	85.5							0.39	2.00	1.00	12.5	50.8	25.4	UNR-1.8/10-D3-C	UNR15-25W			
	10A	18W	5V	3V	5.5V	91%							0.5	2.0	0.33	12.7	50.8	8.3	NCF0100180B0C	NCF010			
	10A	18W	12V	8.3V	14V	90%							0.34	1.3	0.53	8.6	33.0	13.5	NEF010018150C	NEA-NEF010-SIP			
													.5	2.0	0.33	12.7	50.8	8.3	NEF0100181B0C	NEA-NEF010-SIP			
20A	36W	5V	4.8V	5.5V	85%							0.49	2.00	2.00	12.5	50.8	50.8	UNR-1.8/20-D5	UNR30-66W				
25A	45W	12V	10.2V	13.8V	85%							0.39	2.30	0.9	9.9	58.4	22.9	HEN-1.8/25-D12-C	HEN-D12				
2V	10A	20W	5V	3V		92							0.5	2.0	0.33	12.7	50.8	8.3	NCF0100200B0C	NCF010			
			12V	8.3V	14V	91%								0.34	1.3	0.53	8.6	33.0	13.5	NEF010020150C	NEA-NEF010-SIP		
	25A	50W	12V	10.2V	13.8V	85%							0.5	2.0	0.33	12.7	50.8	8.3	NEF0100201B0C	NEA-NEF010-SIP			
												0.39	2.30	0.9	9.9	58.4	22.9	HEN-2/25-D12-C	HEN-D12				
2.5V	2A	5W	5V	4.8V	5.5V	85%							0.45	1.00	1.00	11.4	25.4	25.4	UNR-2.5/2-D5-C	UNR 3.6-10W			
			15V	4.8V	28V	92%								0.267	0.825	0.846	6.8	21.0	21.5	NGA10S15025DC	NGA		
													0.846	0.220	0.825	21.5	5.6	21.0	NGA10S15025SC				
	10A	25W	3.3V	3V	3.6V	89%							0.39	2.00	1.00	12.5	50.8	25.4	UNR-2.5/10-D3-C	UNR15-25W			
			5V	4.5V	5.5V	93%								0.5	2.0	0.33	12.7	50.8	8.3	NCF0100250B0C	NCF010		
			12V	8.3V	14V	92%								0.34	1.3	0.53	8.6	33.0	13.5	NEF010025150C	NEA-NEF010-SIP		
													0.5	2.0	0.33	12.7	50.8	8.3	NEF0100251B0C	NEA-NEF010-SIP			
	15A	38W	5V	4.8V	5.5V	89%							0.49	2.00	2.00	12.5	50.8	50.8	UNR-2.5/15-D5	UNR30-66W			
20A	50W	5V	4.8V	5.5V	86%							0.49	2.00	2.00	12.5	50.8	50.8	UNR-2.5/20-D5-C	UNR30-66W				
25A	62.5W	12V	10.2V	13.8V	85%							0.39	2.30	0.9	9.9	58.4	22.9	HEN-2.5/25-D12-C	HEN-D12				
3.3V	1.5A	4.95W	24V	7V	36V	86%							0.41	0.65	0.3	10.4	16.5	7.62	OKI-78SR3.1/1.5-W36-C	OKI-78SR			
	2A	6.6W	15V	4.8V	28V	94%							0.267	0.825	0.846	6.8	21.0	21.5	NGA10S15033DC	NGA			
																						0.846	0.220
	2.5A	8W	12V	10.8V	13.2V	82%							0.45	2.00	1.00	11.4	50.8	25.4	UNR-3.3/2500-D12	UNR8-40W			
	3A	10W	5V	4.8V	5.5V	88%							0.45	1.00	1.00	11.4	25.4	25.4	UNR-3.3/3-D5-C	UNR3.6-10W			
	3A	10W	5V	4.8V	5.5V	85%							0.45	2.00	1.00	11.4	50.8	25.4	UNR-3.3/3000-D5	UNR8-40W			
			12V	10.8V	13.6V	89%								0.45	1.00	1.00	11.4	25.4	25.4	UNR-3.3/3-D12-C	UNR3.6-10W		
	8A	26W	5V	4.8V	5.5V	92%							0.48	2.00	1.00	12.2	50.8	25.4	UNR-3.3/8-D5-C	UNR18-33W			
			12V	10.8V	13.6V	91%								0.48	2.00	1.00	12.2	50.8	25.4	UNR-3.3/8-D12	UNR18-33W		
	10A	33W	5V	4.5V	5.5V	95%								0.5	2.0	0.33	12.7	50.8	8.3	NCF0100330B0C	NCF010		
				4.8V	5.5V	91%									0.48	2.00	1.00	12.2	50.8	25.4	UNR-3.3/10-D5	UNR18-33W	
			12V	8.3V	14V	93%									0.34	1.3	0.53	8.6	33.0	13.5	NEF010033150C	NEA-NEF010-SIP	
				10.8V	13.6V	89%									0.5	2.0	0.33	12.7	50.8	8.3	NEF0100331B0C	NEA-NEF010-SIP	
													0.48	2.00	1.00	12.2	50.8	25.4	UNR-3.3/10-D12-C	UNR18-33W			
12A	40W	5V	4.8V	5.5V	90%							0.44	2.00	1.00	11.2	50.8	25.4	UNR-3.3/12-D5-C	UNR30-40W				
15A	50W	5V	4.8V	5.5V	91%							0.49	2.00	2.00	12.5	50.8	50.8	UNR-3.3/15-D5-C	UNR30-66W				
25A	82.5W	12V	10.2V	13.8V	85%							0.39	2.30	0.9	9.9	58.4	22.9	HEN-3.3/25-D12-C	HEN-D12				
5V	1.5A	7.5W	24V	7V	36	91%							0.41	0.65	0.3	10.4	16.5	7.62	OKI-78SR5/1.5-W36-C	OKI-78SR			
	2A	10W	15V	7V	28V	95%							0.267	0.825	0.846	6.8	21.0	21.5	NGA10S15050DC	NGA			
	5A	25W	12V	10.8V	13.6V	91%							0.48	2.00	1.00	12.2	50.8	25.4	UNR-5/5-D12-C	UNR25-50W			
	10A	50W	12V	8.3V	14V	95%								0.34	1.3	0.53	8.6	33.0	13.5	NEF010050150C	NEA-NEF010-SIP		
																	0.5	2.0	0.33	12.7	50.8	8.3	NEF0100501B0C
25A	125W	12V	10.2V	13.8V	85%							0.39	2.30	0.9	9.9	58.4	22.9	HEN-5/25-D12-C	HEN-D12				

Single Output

Isolated DC/DC Converters

Power from 0.25 to 340 Watts; currents from 0.02 to 80 Amps; voltages from 1.2 to 48 Volts; inputs from 3 to 75 Volts . . . Murata Power Solutions offers the broadest line of single-output, isolated DC/DC converters in the entire power industry ...without a doubt.

Our low-power encapsulated products (mini SIPs, DIPs and SMDs) are among the smallest available. Many use contemporary ceramic-substrates and copper-lead-frame technologies to achieve their small size.

At the other extreme, our high-power 1/8, 1/4 and 1/2 bricks are open-frame assemblies using multi-layer, heavy-copper pc boards and planar magnetics. Their high efficiencies enable full-power operation to high ambient temperatures, and optional baseplates deliver the best thermal performance in the industry.

If you can't find the DC/DC power solution you need in the tables below, contact us, and we'll develop one for you.



Quick Selection Guide Listed by output power

Output Power	Output Voltages						Series
	3.3V	5V	6V	9V	12V	15V	
<1W	•	•			•	•	HPR1XXC
	•	•			•	•	HPR4XXC
	•	•			•	•	LME
	•	•			•	•	NMF
1-2W	•						HB01UYC
	•						HB01UZXC
	•				•		HPR10XXC
	•				•	•	MER1
	•				•	•	MEV1
	•				•	•	MTU1
	•				•	•	NKE
	•				•	•	NME
	•				•	•	NMJ
	•				•	•	NMR
	•				•	•	NMV
	•				•	•	NTE
	•				•	•	NTF
	•				•	•	PWR11XXC
•				•	•	PWR13XXC	
2-3W					•		LP02U
					•		NDL
					•		NMG
					•		NMK
					•		NML
					•		UST 3W
3-4W					•		MEV3
					•		NDTS
					•		NDY
					•		PWR12XXC
					•		UWR 3W
5-6W					•		NMXSO
					•		NMXU
				•		UWR 5W	

Output Power	Output Voltages												Series	
	1.2V	1.5V	1.8V	2V	2.5V	3.3V	5V	5.2V	9.6V	12V	15V	24V		96V
6-10W							•	•						NCS6
							•	•						NDS6
							•	•						UWR 15W
							•	•						UWR 6-10W
							•	•						UWR 9.6W
10-15W							•	•						NPH10
							•	•						UHE 12-30W
							•	•						UWR 14-20W
							•	•					UWR 15W	
15-18W							•	•						NPH15
							•	•						UEI15
							•	•						UWR 14-20W
18-25W							•	•						EHS20-012
							•	•						UEI25
							•	•						UHE 12-30W
							•	•					ULQ	
							•	•						UWR 14-20W
25-35W							•	•						NPH25
							•	•						UCE
							•	•						UEI30
							•	•						ULE
							•	•						ULQ
							•	•						UMP 25-40W
							•	•					UWR 26-40W	
35-50W							•	•						UCE
							•	•						UCQ
							•	•						UEI 50-60W
							•	•						ULE
							•	•						ULQ
							•	•					UMP 25-40W	

Output Power	Output Voltages												Series		
	1.2V	1.5V	1.8V	2V	2.5V	3.3V	5V	8V	9.6V	12V	15V	18V		24V	48V
50-75W	•														QHS55-012
	•														UCE
	•														UCQ
	•														UEI 50-60W
	•														ULE
														ULQ	
														ULS	
														UVQ	
														UWE	
75-100W	•														QHS50-015
	•														QHS50-018
	•														UCE
	•														UCQ
	•														ULQ
														UQQ	
														UVQ	
100-120W															QHS35-033
															QHS40-025
															UCE
															UCQ
														UVQ	
120-240W															HPQ 165W
															QHS12-120
															ULQ
240-300W															HPQ 300W
															UHP

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information	
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks			SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet <i>Available at www.murata-ps.com</i>	
								1/16	1/8	1/4					H	W	D	H	W	D			
								1/2	0	0					0	0	0	0	0				
1.2V																							
6A	7.2W	12V 10V 18V 1.5kV	78%										0.49	2	1	12.5	50.8	25.4	UWR-1.2/6000-D12A-C	UWR15WA-SERIES			
		24V 18V 36V 1.5kV	79%										0.49	2	1	12.5	50.8	25.4	UWR-1.2/6000-D24A-C				
10A	12W	12V 9V 18V 1.5kV	82%										0.4	2	1.6	10.2	50.8	40.6	UHE-1.2/10000-D12-C	UHE12-30W			
		24V 18V 36V 1.5kV	83%										0.4	2	1.6	10.2	50.8	40.6	UHE-1.2/10000-D24-C				
25A	30W	24V 18V 36V 2kV	88%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-1.2/25-D24P-C	ULQ-15A			
		48V 36V 75V 2.25kV	87.5%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-1.2/25-D48N-C				
30A	36W	48V 36V 75V 2.25kV	83%										0.4	2.3	1.45	10.2	58.4	36.8	UCQ-1.2/30-D48N-C	UCQ-SERIES			
55A	66W	48V 36V 75V 1.5kV	86.5%										0.47	1.45	2.28	11.8	36.8	57.9	QHS55-012-NHCRC	QHS55-012			
1.5V																							
6A	9W	12V 10V 18V 1.5kV	79.5%										0.49	2	1	12.5	50.8	25.4	UWR-1.5/6000-D12A-C	UWR15WA-SERIES			
		24V 18V 36V 1.5kV	80%										0.49	2	1	12.5	50.8	25.4	UWR-1.5/6000-D24A-C				
10A	15W	12V 9V 18V 1.5kV	83%										0.4	2	1.6	10.2	50.8	40.6	UHE-1.5/10000-D12-C	UHE12-30W			
		24V 18V 36V 1.5kV	86%										0.4	2	1.6	10.2	50.8	40.6	UHE-1.5/10000-D24-C				
20A	30W	48V 36V 75V 2.25kV	87%										0.37	2.3	0.9	9.4	58.4	22.9	UCE-1.5/20-D48N-C	UCE-SERIES			
		24V 18V 36V 2kV	88%										0.41	2.3	0.9	10.4	58.4	22.9	ULE-1.5/20-D24P-C	ULE20A			
25A	37.5W	48V 36V 75V 2.25kV	84.5%										0.41	2.3	0.9	10.4	58.4	22.9	ULE-1.5/20-D48N-C		ULE20A		
		24V 18V 36V 2kV	87.5%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-1.5/25-D24P-C	ULQ-15A			
25A	37.5W	48V 36V 75V 2.25kV	83%										0.4	2.3	1.45	10.2	58.4	36.8	UCQ-1.5/25-D48N-C	UCQ-SERIES			
		87%											0.38	2.3	1.45	9.5	58.4	36.8	ULQ-1.5/25-D48N-C	ULQ-15A			
40A	60W	48V 36V 75V 2.25kV	86%										0.4	2.3	1.45	10.2	58.4	36.8	UCQ-1.5/40-D48N-C	UCQ-SERIES			
		24V 18V 36V 2kV	88%										0.42	2.3	1.45	10.7	58.4	36.8	UVQ-1.5/40-D24P-C	UVQ-SERIES			
50A	75W	48V 36V 75V 1.5kV	86%										0.47	1.45	2.28	11.8	36.8	57.9	QHS50-015-NHCRC	QHS50-015			
1.8V																							
6A	10.8W	12V 10V 18V 1.5kV	83%										0.49	2	1	12.5	50.8	25.4	UWR-1.8/6000-D12A-C	UWR15WA-SERIES			
		24V 18V 36V 1.5kV	84.5%										0.49	2	1	12.5	50.8	25.4	UWR-1.8/6000-D24A-C	UWR15WA-SERIES			
		48V 36V 75V 1.5kV	85%											0.49	2	1	12.5	50.8	25.4	UWR-1.8/6000-D48A-C	UWR15WA-SERIES		
10A	18W	12V 9V 18V 1.5kV	85.5%										0.4	2	1.6	10.2	50.8	40.6	UHE-1.8/10000-D12-C	UHE12-30W			
		24V 18V 36V 1.5kV	87%										0.4	2	1.6	10.2	50.8	40.6	UHE-1.8/10000-D24-C				
20A	36W	48V 36V 75V 1.5kV	85%										0.4	2	1.6	10.2	50.8	40.6	UHE-1.8/10000-D48-C	ULE20A			
		24V 18V 36V 2kV	86%										0.41	2.3	0.9	10.4	58.4	22.9	ULE-1.8/20-D24P-C		ULE20A		
25A	45W	48V 36V 75V 2.25kV	86.5%										0.41	2.3	0.9	10.4	58.4	22.9	ULE-1.8/20-D48N-C	ULE20A			
		24V 18V 36V 2kV	87.5%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-1.8/25-D24P-C		ULQ-15A		
25A	45W	48V 36V 75V 2.25kV	87.5%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-1.8/25-D48N-C	ULQ-15A			
		88%											0.37	2.3	0.9	9.4	58.4	22.9	UCE-1.8/30-D48N-C	UCE-SERIES			
30A	54W	48V 36V 75V 2.25kV	86%										0.4	2.3	1.45	10.2	58.4	36.8	UCQ-1.8/30-D48N-C	UCQ-SERIES			
		88%											0.47	1.45	2.28	11.8	36.8	57.9	QHS50-018-NHCRC	QHS50-018			
2V																							
25A	50W	24V 18V 36V 2kV	88%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-2/25-D24P-C	ULQ-15A			
		48V 36V 75V 2.25kV	88%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-2/25-D48N-C				
2.5V																							
6A	15W	12V 10V 18V 1.5kV	86%										0.49	2	1	12.5	50.8	25.4	UWR-2.5/6000-D12A-C	UWR15WA-SERIES			
		24V 18V 36V 1.5kV	85%										0.49	2	1	12.5	50.8	25.4	UWR-2.5/6000-D24A-C				
		48V 36V 75V 1.5kV	86%											0.49	2	1	12.5	50.8	25.4		UWR-2.5/6000-D48A-C		
10A	25W	12V 9V 18V 1.5kV	87%										0.4	2	1.6	10.2	50.8	40.6	UHE-2.5/10000-D12-C	UHE12-30W			
		24V 18V 36V 1.5kV	88%										0.4	2	1.6	10.2	50.8	40.6	UHE-2.5/10000-D24-C				
15A	37.5W	48V 36V 75V 1.5kV	88%										0.4	2	1.6	10.2	50.8	40.6	UHE-2.5/10000-D48-C	ULE20A			
		48V 36V 75V 2.25kV	89.5%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-2.5/15-D48N-C		ULQ-15A		
20A	50W	24V 18V 36V 2kV	88.5%										0.41	2.3	0.9	10.4	58.4	22.9	ULE-2.5/20-D24P-C	ULE20A			
													0.38	2.3	1.45	9.5	58.4	36.8	ULQ-2.5/20-D24P-C	ULQ-15A			
		48V 36V 75V 2.25kV	88%										0.37	2.3	0.9	9.4	58.4	22.9	UCE-2.5/20-D48	UCE-SERIES			
		88.5%											0.41	2.3	0.9	10.4	58.4	22.9	ULE-2.5/20-D48N-C	ULE20A			
30A	75W	48V 36V 75V 2.25kV	87%										0.38	2.3	1.45	9.5	58.4	36.8	ULQ-2.5/20-D48N-C	ULQ-15A			
		88%											0.4	2.3	1.45	10.2	58.4	36.8	UCQ-2.5/30-D48N-C	UCQ-SERIES			
35A	87.5W	24V 18V 36V 2kV	88%										0.42	2.3	1.45	10.7	58.4	36.8	UCQ-2.5/35-D24P-C	UVQ-SERIES			
40A	100W	24V 18V 36V 2.25kV	84%										0.4	2.3	1.45	10.2	58.4	36.8	UCQ-2.5/40-D24P-C	UCQ-SERIES			
		48V 36V 75V 1.5kV	88.5%										0.47	1.45	2.28	11.8	36.8	57.9	QHS40-025-NHCRC	QHS40-025			
		48V 36V 75V 2.25kV	91%										0.42	2.3	1.45	10.7	58.4	36.8	UVQ-2.5/40-D48N-C	UVQ-SERIES			

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information					
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet Available at www.murata-ps.com				
								1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W			D			
3.3V	0.3A	1W	3.3V	2.97V	3.63V	3kV	75%						•	•	0.21	0.39	0.45	5.4	9.8	11.5	NKE0303DC	NKE				
						1kV	73%						•	•	0.29	0.24	0.45	7.5	6	11.5	NKE0303SC	NKE				
						5.2kV	66%						•			0.49	0.39	0.77	12.5	9.8	19.5	NMJ0303SAC	NMJ			
			5V	4.5V	5.5V	3kV	75%							•	•	0.21	0.39	0.45	5.4	9.8	11.5	NKE0503DC	NKE			
						5.2kV	64%						•			0.49	0.39	0.77	12.5	9.8	19.5	NMJ0503SAC	NMJ			
						1kV	74%						•			0.26	0.30	0.5	6.6	7.7	12.7	NTE0503MC	NTE			
	0.9A	3W	5V	4.5V	9V	1kV	63%							•	•	0.28	0.58	1.27	7	14.7	32.3	NDTS0503C	NDTS			
			12V	9V	18V	1kV	71%								•	•	0.28	0.58	1.27	7	14.7	32.3		NDTS1203C		
			24V	18V	36V	1kV	71%								•	•	0.28	0.58	1.27	7	14.7	32.3		NDTS2403C		
			48V	36V	72V	1kV	71%								•	•	0.28	0.58	1.27	7	14.7	32.3		NDTS4803C		
	1.52A	6W	12V	9V	36V	1.5kV	78%							•	•	0.39	1.26	0.79	10	32	20	NCS6S1203C	NCS6			
			48V	18V	75V	1.5kV	76%								•	•	0.39	1.26	0.79	10	32	20		NCS6S4803C		
	2.94A	10W	24V	18V	36V	1.5kV	79%							•	•	0.39	0.98	1.26	10	25	32	NPH10S2403EIC	NPH10S			
															•	•	0.39	0.98	1.26	10	25	32		NPH10S2403IC		
			48V	36V	75V	1.5kV	80%								•	•	0.39	0.98	1.26	10	25	32		NPH10S4803EIC		
	4.25A	14W	5V	4.7V	7.5V	1.5kV	77%							•		0.45	2	2	11.4	50.8	50.8	UWR-3.3/4250-D5-C	UWR14-20WA-SERIES			
			12V	10V	18V	1.5kV	86%								•		0.49	2	1	12.5	50.8	25.4	UWR-3.3/4250-D12A-C	UWR15WA-SERIES		
			24V	18V	36V	1.5kV	87%								•		0.49	2	1	12.5	50.8	25.4	UWR-3.3/4250-D24A-C			
			48V	36V	75V	1.5kV	87%								•		0.49	2	1	12.5	50.8	25.4	UWR-3.3/4250-D48A-C			
	4.4A	15W	24V	18V	36V	1.5kV	81%							•	•	0.39	1	2	10	25	50	NPH15S2403EIC	NPH15S			
															•	•	0.39	1	2	10	25	50		NPH15S2403IC		
			48V	36V	75V	1.5kV	83%								•	•	0.39	1	2	10	25	50		NPH15S4803EIC		
	4.5A	14.9W	24V	9V	36V	1.5kV	87.5%							•		0.36	1.1	0.96	9.1	27.9	24.4	UEI15-033-Q12P-C	UEI 15W			
	4.85A	16W	24V	9V	36V	1.5kV	79%								•		0.45	2	2	11.4	50.8	50.8	UWR-3.3/4850-D12-C	UWR14-20WA-SERIES		
			48V	18V	75V	1.5kV	80%								•		0.45	2	2	11.4	50.8	50.8	UWR-3.3/4850-D48-C			
	5A	16.5W	48V	18V	75V	1.5kV	88%								•		0.36	1.1	0.96	9.1	27.9	24.4	UEI15-033-Q48NR-C	UEI15W		
	7.3A	25W	24V	18V	36V	1.5kV	81%								•	•	0.39	1.38	1.97	10	35	50	NPH25S2403EIC	NPH25S		
			48V	36V	75V	1.5kV	83%								•	•	0.39	1.38	1.97	10	35	50	NPH25S2403IC			
	7.3A	25W	48V	36V	75V	1.5kV	83%								•	•	0.39	1.38	1.97	10	35	50	NPH25S4803EIC	NPH25S		
															•	•	0.39	1.38	1.97	10	35	50	NPH25S4803IC			
	7.5A	24.75W	24V	9V	36V	1.5kV	88%								•		0.4	2	1.6	10.2	50.8	40.6	UHE-3.3/7500-Q12-C	UHE12-30W		
			48V	18V	75V	1.5kV	89.5%								•		0.4	2	1.6	10.2	50.8	40.6	UHE-3.3/7500-Q48-C			
			48V	36V	75V	1.5kV	91%								•		0.4	2	1.6	10.2	50.8	40.6	UHE-3.3/7500-D48-C			
8A	26.4W	12V	10V	18V	1.5kV	87.5%								•		0.45	2	2	11.4	50.8	50.8	UWR-3.3/8-D12A-C	UWR26-40W			
9A	29.7W	24V	9V	36V	2.25kV	89%								•		0.92	1.92	0.35	23.4	48.8	8.9	UEI30-033-Q12P-C	UEI30-SERIES			
					1.5kV	88.5%										•		0.45	2	2	11.4	50.8	50.8	UWR-3.3/9-D24A-C	UWR26-40W	
		48V	18V	75V	2.25kV	89.5%									•		0.92	1.92	0.35	23.4	48.8	8.9	UEI30-033-Q48N-C	UEI30-SERIES		
					1.5kV	88.5%											•		0.45	2	2	11.4	50.8	50.8	UWR-3.3/9-D48A-C	UWR26-40W
10A	33W	24V	18V	36V	2.25kV	89%						•	•	0.4	2.4	2.3	10.2	61	58.4		UCH-3.3/10-D24P-C	UCH-SERIES				
					48V	36V	75V	2.25kV								•	•	0.4	2.4	2.3	10.2		61	58.4	UCH-3.3/10-D48N-C	
15A	49.5W	24V	9V	36V	1.5kV	87.5%								•		0.375	1.95	1.55	9.5	49.5	39.4	UEI-3.3/15-Q12PR-C	UEI-50/60			
					2.25kV	90%						•					•		0.37	2.3	0.9	9.4	58.4	22.9	UCE-3.3/15-D48N-C	UCE-SERIES
						89%												•		0.4	2.4	2.3	10.2	61	58.4	UCH-3.3/15-D48N-C
18A	59.4W	48V	36V	75V	2.25kV	90.5%									•		0.38	2.3	1.45	9.5	58.4	36.8	ULQ-3.3/15-D48N-C	ULQ-15A		
						89%											•		0.375	1.95	1.55	9.5	49.5	39.4	UEI-3.3/18-Q48NR-C	UEI-50/60
					48V	18V	75V	2.25kV	89.5%									•		0.9	2.3	0.38	22.9	58.4	9.7	UWE-3.3/20-Q12P-C
20A	66W	12V	9V	36V	2.25kV	89%								•		0.41	2.3	0.9	10.4	58.4	22.9	ULE-3.3/20-D24P-C	ULE20A			
						89.5%											•		0.38	2.3	1.45	9.5	58.4	36.8	ULQ-3.3/20-D24P-C	ULQ-15A
		24V	18V	36V	2kV	89.5%									•		0.9	2.3	0.38	22.9	58.4	9.7	UWE-3.3/20-Q48N-C	UWE-SERIES		
						89.5%											•		0.9	2.3	0.38	22.9	58.4	9.7	UCQ-3.3/20-D48N-C	UCQ-SERIES

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information								
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com							
								1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W			D						
5V	0.2A	1W	5V	4.5V	5.5V	1kV	68%										0.26	0.30	0.5	6.6	7.7	12.7	NTE0505MC	NTE					
							77%															0.26	0.30		0.5	6.6	7.7	12.7	NTE0505MEC
			9V	15V	1kV	73%													0.13	0.70	0.5	3.3	17.8	12.7	NTFS1205MC	NTF			
						84%															0.39	0.24	0.77	10	6	19.5	MER1S1205SC	MER1	
			12V	10.8V	13.2V	3kV	84%													0.27	0.39	0.77	6.8	9.8	19.5	MEV1S1205DC	MEV1		
							84%														0.39	0.24	0.77	10	6	19.5		MEV1S1205SC	
						71%															0.21	0.39	0.45	5.4	9.8	11.5	NKE1205DC	NKE	
						71%															0.29	0.24	0.45	7.5	6	11.5	NKE1205SC		
						1kV	84%															0.335	0.323	0.331	8.5	8.2	8.4	MTU1S1205MC	MTU1
							69%															0.27	0.39	0.45	6.8	9.8	11.5	NME1205DC	NME
			5.2kV	69%														0.39	0.24	0.45	10	6	11.5	NME1205SC					
			1kV	69%															0.39	0.24	0.77	10	6	19.5	NMJ1205SAC	NMJ			
		3kV	69%															0.27	0.39	0.77	6.8	9.8	19.5	NMV1205DAC	NMV				
		1kV	67%														0.39	0.24	0.77	10	6	19.5	NMV1205SAC						
		1kV	67%															0.26	0.30	0.5	6.6	7.7	12.7	NTE1205MC	NTE				
		15V	13.5V	16.5V	1kV	83.5%													0.39	0.24	0.77	10	6	19.5	MER1S1505SC	MER1			
						83.5%														0.27	0.39	0.77	6.8	9.8	19.5		MEV1S1505DC		
					3kV	83.5%														0.39	0.24	0.77	10	6	19.5	MEV1S1505SC	MEV1		
					1kV	69%														0.39	0.24	0.77	10	6	19.5	NMR112C	NMR		
			3kV	67%														0.39	0.24	0.77	10	6	19.5	NMV1505SAC	NMV				
			18	36	1kV	70%														0.13	0.70	0.5	3.3	17.8	12.7	NTFS2405MC	NTF		
						71%														0.4	0.77	0.24	10.1	19.6	6.1	HPR1018C	HPR10XXC		
						84%															0.39	0.24	0.77	10	6	19.5	MER1S2405SC	MER1	
						84%															0.27	0.39	0.77	6.8	9.8	19.5	MEV1S2405DC	MEV1	
	3kV		84%														0.39	0.24	0.77	10	6	19.5	MEV1S2405SC						
	24V		21.6V	26.4V	1kV	70%													0.27	0.39	0.45	6.8	9.8	11.5	NME2405DC	NME2			
						70%														0.39	0.24	0.45	10	6	11.5		NME2405SC		
		3kV			70%														0.39	0.24	0.77	10	6	19.5	NMR118C	NMR			
		3kV			70%														0.39	0.24	0.77	10	6	19.5	NMV2405SAC	NMV2			
	48V	43.2V	52.8V	1kV	79.5%													0.39	0.24	0.77	10	6	19.5	MER1S4805SC	MER1				
					84%														0.39	0.24	0.77	10	6	19.5	MEV1S4805SC	MEV1			
				1kV	70%														0.30	0.39	0.45	7.7	9.8	11.5	NME4805DC	NME2			
	3kV	70%														0.39	0.3	0.45	10	7.5	11.5	NME4805SC							
	0.30A	1.5W	5V	4.5V	5.5V	8kV	75%											0.4	1.27	0.81	10.2	32.3	20.5	PWR1300AC	PWR13XXC				
							75%														0.4	1.27	0.81	10.2		32.3	20.5	PWR1306AC	
	0.4A	2W	5V	4.5V	5.5V	1kV	66%											0.44	0.36	0.86	11.1	9.2	21.8	NDL0505SC	NDL				
							81%														0.4	0.30	0.77	10	7.5	19.5	NMG0505SC	NMG	
							80%															0.4	0.30	0.77	10	7.5	19.5	NMK0505SAC	NMK
			1kV	78%														0.39	0.30	0.55	10	7.5	14	NML0505SC	NML				
			12V	9V	18V	1kV	73%													0.44	0.36	0.86	11.1	9.2	21.8	NDL1205SC	NDL		
							81%														0.4	0.30	0.77	10	7.5	19.5	NMG1205SC	NMG	
		80%																			0.4	0.30	0.77	10	7.5	19.5	NMK1205SAC	NMK	
		24V	18V	36V	1kV	74%													0.44	0.36	0.86	11.1	9.2	21.8	NDL2405SC	NDL			
						81%														0.39	0.30	0.55	10	7.5	14		NML1205SC		
						73%															0.44	0.36	0.86	11.1	9.2		21.8	NDL4805SC	
		0.5A	2.5W	5V	4.5V	9V	1kV	74%											0.45	1.25	0.8	11.4	31.8	20.3	UST-5/500-D5-C	UST-3W			
								70%														0.45	1.25	0.8	11.4	31.8	20.3	UWR-5/500-D5-C	UWR-3W
	12V			9V	18V	1kV	74%												0.45	1.25	0.8	11.4	31.8	20.3	UST-5/500-D12-C	UST-3W			
70%																				0.45	1.25	0.8	11.4	31.8	20.3	UWR-5/500-D12-C	UWR-3W		
48V	18V			72V	1kV	75%													0.45	1.25	0.8	11.4	31.8	20.3	UST-5/500-D48-C	UST-3W			
						75%														0.45	1.25	0.8	11.4	31.8	20.3	UWR-5/500-D48-C	UWR-3W		

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information									
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet <i>Available at www.murata-ps.com</i>								
								1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W			D							
5V	0.6A	3W	5V	4.5V	5.5V	3kV	83%											0.3	0.4	0.77	7.7	10.2	19.7	MEV3S0505SC	MEV3					
					9V	1kV	71%														0.28	0.58	1.27	7	14.7	32.3	NDTS0505C	NDTS		
					66%															0.28	0.58	1.27	7	14.7	32.3	NDY0505C	NDY			
					73%															0.28	0.58	1.27	7	14.7	32.3	NDTS1205C	NDTS			
					71%															0.28	0.58	1.27	7	14.7	32.3	NDY1205C	NDY			
					84%															0.3	0.4	0.77	7.7	10.2	19.7	MEV3S1205SC	MEV3			
			24V	18V	36V	1kV	78%													0.28	0.58	1.27	7	14.7	32.3	NDTS2405C	NDTS			
		70%																			0.28	0.58	1.27	7	14.7	32.3	NDY2405C	NDY		
		75%																				0.28	0.58	1.27	7	14.7	32.3	NDTS4805C	NDTS	
		73%																				0.28	0.58	1.27	7	14.7	32.3	NDY4805C	NDY	
							48V	36V	72V	1kV	78%												0.45	1	1	11.4	25.4	25.4	UWR-5/1000-D24-C	UWR-5W
		78%																							0.45	1	1	11.4	25.4	
		1.2A	6W	12V	9V	36V	1.5kV	82%										0.39	1.26	0.79	10	32	20	NCS6S1205C	NCS6					
	82%																					0.39	1.26	0.79	10	32	20	NDS6S2405C	NDS6	
	80%																						0.39	1.26	0.79	10	32	20	NCS6S4805C	NCS6
		1.6A	8W	5V	4.7V	7.25V	1.5kV	76%										0.45	2	1	11.4	50.8	25.4	UWR-5/1600-D5-C	UWR 6-10W A-SERIES					
	81%																					0.45	2	1		11.4	50.8	25.4	UWR-5/1800-D48-C	
		1.96A	10W	24V	18V	36V	1.5kV	83%										0.39	0.98	1.26	10	25	32	NPH10S2405EIC	NPH10S					
																						0.39	0.98	1.26		10	25	32	NPH10S2405IC	
	83%																		0.39	0.98	1.26	10	25	32		NPH10S4805EIC				
																			0.39	0.98	1.26	10	25	32		NPH10S4805IC				
		2A	10W	12V	9V	18V	1.5kV	81%										0.45	2	1	11.4	50.8	25.4	UWR-5/2000-D12A-C	UWR 6-10W A-SERIES					
	85%																					0.45	2	1	11.4	50.8	25.4	UWR-5/2000-D24E-C	UWR 6-10W A-SERIES	
	84%																						0.45	2	1	11.4	50.8	25.4	UWR-5/2000-D48E-C	UWR 6-10W A-SERIES
		3A	15W	5V	4.7V	7.5V	1.5kV	79%										0.45	2	2	11.4	50.8	50.8	UWR-5/3000-D5-C	UWR 14-20W A-SERIES					
	85%																					0.49	2	1	12.5	50.8	25.4	UWR-5/3000-D12A-C	UWR 15W A-SERIES	
					24V	9V	36V	1.5kV	87%										0.36	1.1	0.96	9.1	27.9	24.4	UEI15-050-Q12P-C	UEI 15W				
	84%																					0.39	0.98	1.97	10	25	50	NPH15S2405EIC	NPH15S	
						18V	36V	1.5kV	88%										0.49	2	1	12.5	50.8	25.4	UWR-5/3000-D24A-C	UWR 15W A-SERIES				
	86%																				0.36	1.1	0.96	9.1	27.9	24.4	UEI15-050-Q48N-C	UEI15W		
					48V	36V	75V	1.5kV	85%										0.39	0.98	1.97	10	25	50	NPH15S4805EIC	NPH15S				
	88%																					0.49	2	1	12.5		50.8	25.4	UWR-5/3000-D48A-C	UWR 15W A-SERIES
				4A	20W	12V	9V	36V	1.5kV	82%										0.45	2	2	11.4	50.8	50.8	UWR-5/4000-D12-C	UWR 14-20W A-SERIES			
	84%																							0.45	2	2	11.4	50.8	50.8	UWR-5/4000-D48-C
		5A	25W	24V	18V	36V	1.5kV	84%										0.39	1.38	1.97	10	35	50	NPH25S2405EIC	NPH25S					
																						0.39	1.38	1.97		10	35	50	NPH25S2405IC	
						9V	36V	1.5kV	87.5%										0.4	2	1.6	10.2	50.8	40.6	UHE-5/5000-Q12-C	UHE12-30W				
												79%									0.55	3.04	2.04	14	77.2	51.8	UMP-5/5-Q12-C	UMP25-40W		
					48V	36V	75V	1.5kV	85%										0.39	1.38	1.97	10	35	50	NPH25S4805EIC	NPH25S				
													90%									0.4	2	1.6	10.2		50.8	40.6	UHE-5/5000-Q48-C	UHE12-30W
		6A	30W	24V	9V	36V	1.5kV	91.5%										0.4	2	1.6	10.2	50.8	40.6	UHE-5/6000-Q12-C	UEI30-SERIES					
												89.5%									0.92	1.92	0.35	23.4		48.8	8.9	UEI30-050-Q12P-C		
					36V	75V	1.5kV	91.5%										0.4	2	1.6	10.2	50.8	40.6	UHE-5/6000-D48-C	UHE12-30W					
											91.5%									0.4	2	1.6	10.2	50.8	40.6	UHE-5/6000-Q48-C	UHE12-30W			
				48V	18V	75V	1.5kV	80%										0.55	3.04	2.04	14	77.2	51.8	UMP-5/6-Q48-C	UMP25-40W					
												91%									0.92	1.92	0.35	23.4	48.8	8.9	UEI30-050-Q48N-C	UEI30-SERIES		

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information					
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com				
								1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W			D			
5V	7A	35W	12V	10V	18V	1.5kV	89.5%											0.45	2	2	11.4	50.8	50.8	UWR-5/7-D12A-C	UWR26-40W	
			24V	18V	36V	1.5kV	83%												0.55	3.04	2.04	14	77.2	51.8	UMP-5/7-D24-C	UMP25-40W
	8A	40W	24V	18V	36V	1.5kV	90%											0.45	2	2	11.4	50.8	50.8	UWR-5/8-D24A-C	UWR26-40W	
			48V	36V	75V	1.5kV	84%												0.55	3.04	2.04	14	77.2	51.8	UMP-5/8-D48-C	UMP25-40W
							90%												0.45	2	2	11.4	50.8	50.8	UWR-5/8-D48A-C	UWR26-40W
	10A	50W	12V	9V	18V	2kV	89%												0.41	2.3	0.9	10.4	58.4	22.9	ULE-5/10-D12P-C	ULE20A
			24V	9V	36V	1.5kV	90%												0.375	1.95	1.55	9.5	49.5	39.4	UEI-5/10-Q12PR-C	UEI50/60
			48V	36V	75V	2.25kV	90.5%												0.37	2.3	0.9	9.4	58.4	22.9	UCE-5/10-D48	UCE-SERIES
	12A	60W	24V	18V	36V	2kV	90%												0.41	2.3	0.9	10.4	58.4	22.9	ULE-5/12-D24P-C	ULE20A
			48V	18V	75V	2.25kV	91%												0.375	1.95	1.55	9.5	49.5	39.4	UEI-5/12-Q48NR-C	UEI50/60
			48V	36V	75V	2.25kV	90%												0.41	2.3	0.9	10.4	58.4	22.9	ULE-5/12-D48N-C	ULE20A
	15A	75W	12V	9V	36V	2.25kV	91%												0.9	1.3	0.4	22.86	33.02	10.16	ULS-5/12-D48N-C	ULS-SERIES
			24V	18V	36V	2kV													0.38	2.3	1.45	9.5	58.4	36.8	ULQ-5/15-D24P-C	ULQ-15A
			48V	18V	75V	2.25kV	90%												0.9	2.3	0.38	22.9	58.4	9.7	UWE-5/15-Q48N-C	UWE-SERIES
			36V	75V	2.25kV	91%													0.38	2.3	1.45	9.5	58.4	36.8	ULQ-5/15-D48N-C	ULQ-15A
	17A	85W	12V	9V	36V	2kV	90.5%											0.43	2.22	1.45	10.9	56.4	36.8	UQQ-5/17-Q12P-C	UQQ7-15A	
	20A	100W	24V	18V	36V	2.25kV	91.5%												0.4	2.3	1.45	10.2	58.4	36.8	UCQ-5/20-D24P-C	UCQ-SERIES
							90.5%												0.4	2.4	2.3	10.2	61	58.4	UCH-5/20-D24P-C	UCH-SERIES
			36V				93%												0.4	2.3	1.45	10.2	58.4	36.8	UCQ-5/20-D48N-C	UCQ-SERIES
18V						91%												0.43	2.22	1.45	10.9	56.4	36.8	UQQ-5/20-Q48N-C	UQQ7-15A	
48V			75V	2.25kV	92.5%													0.37	2.3	0.9	9.4	58.4	22.9	UCE-5/20-D48	UCE-SERIES	
					89%												0.42	2.3	1.45	10.7	58.4	36.8	UVQ-5/20-D48N-C	UVQ-SERIES		
30A	150W	48V	36V	75V	2.25kV	91%											0.4	2.4	2.3	10.2	61	58.4	UCH-5/30-D48N-C	UCH-SERIES		
40A	200W	48V	36V	75V	2.25kV	91%											0.4	2.4	2.3	10.2	61	58.4	HPH-5/40-D48N-C	HPH-SERIES		

5.2V	1.5A	8W	5V	4.7V	7.25V	1.5kV	76%										0.45	2	1	11.4	50.8	25.4	UWR-5.2/1500-D5A-C	UWR 6-10W A-SERIES
	3A	16W	5V	4.7V	7.5V	1.5kV	80%											0.45	2	2	11.4	50.8	50.8	UWR-5.2/3000-D5A-C

6V	0.167A	1W	5V	4.5V	5.5V	1kV	72%										0.26	0.30	0.5	6.6	7.7	12.7	NTE0506MC	NTE
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9V	0.028A	0.25W	5V	4.5V	5.5V	1kV	75%										0.27	0.39	0.45	6.8	9.8	11.5	LME0509DC	LME		
																			0.39	0.24	0.45	10	6		11.5	LME0509SC
			12V	10.8V	13.2V	1kV	75%												0.27	0.39	0.45	6.8	9.8		11.5	LME1209DC
	0.1A	0.9W	5V	4.75V	5.25V	1kV	62%											0.39	0.24	0.45	10	6	11.5	LME1209SC	NMF	
																			0.27	0.39	0.77	6.8	9.8	19.5		NMF0509DC
			12V	11.4V	12.6V	1kV	62%												0.39	0.24	0.77	10	6	19.5		NMF1209SC
																			0.27	0.39	0.77	6.8	9.8	19.5		NMF1209DC
			24V	22.8V	25.2V	1kV	62%												0.27	0.39	0.77	6.8	9.8	19.5		NMF2409DC
																			0.39	0.24	0.77	10	6	19.5		NMF2409SC
	0.111A	1W	3.3V	2.97V	3.63V	3kV	75%											0.21	0.39	0.45	5.4	9.8	11.5	NKE0309DC	NKE	
																			0.29	0.24	0.45	7.5	6	11.5		NKE0309SC
								1kV	77%										0.26	0.30	0.5	6.6	7.7	12.7	NTE0309MC	NTE
								87%											0.39	0.24	0.77	10	6	19.5	MER1S0509SC	MER1
								86%											0.335	0.323	0.331	8.5	8.2	8.4	MTU1S0509MC	MTU1
			5V	4.5V	5.5V	3kV	86.5%												0.27	0.39	0.77	6.8	9.8	19.5	MEV1S0509DC	MEV1
																			0.39	0.24	0.77	10	6	19.5	MEV1S0509SC	
					3kV	75%										0.21	0.39	0.45	5.4	9.8	11.5	NKE0509DC	NKE			
																0.29	0.24	0.45	7.5	6	11.5	NKE0509SC				

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information	
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet <small>Available at www.murata-ps.com</small>
								1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W		

12V	1.3A	15.6W	24V	9V	36V	2.25kV	84.5%										1.1	0.96	0.32	27.9	24.4	8.1	UEI15-120-Q12	UEI15-SERIES				
			48V	18V	75V		85%												1.1	0.96	0.32	27.9	24.4		8.1	UEI15-120-Q48		
	1.66A	20W	24V	9V	36V	1.5kV	82.5%										0.45	2	2	11.4	50.8	50.8	UWR-12/1650-D12A-C	UWR 14-20W A-SERIES				
			48V	18V	75V	1.5kV	85%											0.45	2	2	11.4	50.8	50.8		UWR-12/1650-D48A-C			
	2.10A	25W	24V	18V	36V	1.5kV	86%											0.39	1.38	1.97	10	35	50	NPH25S2412EIC	NPH25S			
																			0.39	1.38	1.97	10	35	50		NPH25S2412IC		
				10V	36V	1.5kV	82%												0.55	3.04	2.04	14	77.2	51.8		UMP-12/2.1-Q12-C	UMP 25-40W	
		25.2W	48V	36V	75V	1.5kV	88%												0.39	1.38	1.97	10	35	50	NPH25S4812EIC	NPH25S		
																					0.39	1.38	1.97	10	35		50	NPH25S4812IC
						2.25kV	87.5%														0.96	1.1	0.32	24.4	27.9		8.13	UEI25-120-D48
	2.5A	30W	12V	9V	18V	1.5kV	89%											0.4	2	1.6	10.2	50.8	40.6	UHE-12/2500-D12-C	UHE 12-30W			
							87.5%														0.4	2	1.6	10.2		50.8	40.6	UHE-12/2500-Q12-C
				18V	36V		90%													0.4	2	1.6	10.2	50.8		40.6	UHE-12/2500-D24-C	
				18V	75V		90.5%													0.4	2	1.6	10.2	50.8		40.6	UHE-12/2500-Q48-C	
				36V	75V		1.5kV	92%												0.4	2	1.6	10.2	50.8		40.6	UHE-12/2500-D48-C	
				18V	75V		83%													0.55	3.04	2.04	14	77.2		51.8	UMP-12/2.5-Q48-C	UMP 25-40W
	3A	36W	24V	18V	36V	1.5kV	84%											0.55	3.04	2.04	14	77.2	51.8	UMP-12/3-D24-C	UMP 25-40W			
							85%														0.55	3.04	2.04	14		77.2	51.8	UMP-12/3.3-D48-C
	4.2A	50.4W	24V	9V	36V	2.25kV	89.5%											0.375	1.95	1.55	9.5	49.5	39.4	UEI-12/4.2-Q12P-C	UEI-50/60			
				18V			2kV	91%												0.41	2.3	0.9	10.4	58.4		22.9	ULE-12/4.2-D24P-C	
			48V	36V	75V	2.25kV	92%												0.37	2.3	0.9	9.4	58.4	22.9	UCE-12/4.2-D48N-C	UCE-SERIES		
							91%														0.41	2.3	0.9	10.4	58.4		22.9	ULE-12/4.2-D48N-C
	5A	60W	48V	18V	75V	2.25kV	89.8%											0.375	1.95	1.55	9.5	49.5	39.4	UEI-12/5-Q48N-C	UEI-50/60			
				36V			91%													0.9	1.3	0.4	22.86	33.02		10.16	ULS-12/5-D48N-C	ULS-SERIES
	6A	72W	12V	9V	36V	2.25kV	91.5%											0.9	2.3	0.38	22.9	58.4	9.7	UWE-12/6-Q12P-C	UWE-SERIES			
				48V			18V	75V	91%											0.9	2.3	0.38	22.9	58.4		9.7	UWE-12/6-Q48N-C	
	8A	96W	12V	9V	36V	2kV	89%											0.43	2.22	1.45	10.9	56.4	36.8	UQQ-12/8-Q12P-C	UQQ7-15A			
				24V			18V	36V	2kV	90.5%										0.38	2.3	1.45	9.5	58.4		36.8	ULQ-12/8-D24P-C	ULQ-15A
							90%											0.42	2.3	1.45	10.7	58.4	36.8	UVQ-12/8-D24P-C				
	8.3A	99.6W	48V	36V	75V	2.25kV	88.5%											0.43	2.22	1.45	10.9	56.4	36.8	UQQ-12/8-Q48N-C	UQQ7-15A			
90%																				0.37	2.3	0.9	9.4	58.4		22.9	UCE-12/8.3-D48N-C	UCE-SERIES
10A	120W	48V	36V	75V	2.25kV	90%											0.4	2.3	1.45	10.2	58.4	36.8	UCQ-12/8.3-D48N-C	UCQ-SERIES				
						91%														0.4	2.3	1.45	10.2		58.4	22.9	UCE-12/10-D48	UCE-SERIES
12A	144W	48V	36V	75V	2.25kV	90%											0.38	2.3	1.45	9.5	58.4	36.8	ULQ-12/10-D48N-C	ULQ-15A				
						93%														0.42	2.3	1.45	10.7		58.4	36.8	UVQ-12/10-D48N-C	UVQ-SERIES
12A	144W	48V	36V	75V	1.5kV	93%											0.47	1.45	2.28	11.8	36.8	57.9	QHS12-120-NHCRC	QHS12-120				
12.5A	150W	48V	36V	75V	2.25kV	92.5%											0.4	2.4	2.3	10.2	61	58.4	UCH-12/12.5-D48N-C	UCH-SERIES				
25A	300W	48V	36V	75V	2.25kV	93.5%											1.45	2.3	0.44	36.8	58.4	11.2	HPQ-12/25-D48	HPQ 300W				
30A	360W	48V	36V	75V	2.25kV	93%											0.4	2.4	2.3	10.2	61	58.4	HPH-12/30-D48N-C	HPH-SERIES				

15V	0.016A	0.25W	5V	4.5V	5.5V	1kV	75%										0.27	0.39	0.45	6.8	9.8	11.5	LME0515DC	LME	
																		0.39	0.24	0.45	10	6	11.48		LME0515SC
			12V	10.8V	13.2V	1kV	75%											0.27	0.39	0.45	6.8	9.8	11.5		LME1215DC
	0.05	0.75W	5V	4.5V	5.5V	0.75kV	71%											0.4	0.77	0.24	10.1	19.6	6.09	HPR102C	HPR1XXC
							1kV	71%										0.4	0.77	0.24	10.1	19.6	6.09	HPR402C	
				15V	13.5V	16.5V	1kV	69%										0.4	0.77	0.24	10.1	19.6	6.09	HPR414C	
				24V	21.6V	26.4V	0.75kV	76%										0.4	0.77	0.24	10.1	19.6	6.09	HPR120C	HPR1XXC
	0.067A	1W	3.3V	2.97V	3.63V	1kV	77%											0.26	0.30	0.5	6.6	7.7	12.7	NTE0315MC	NTE
				5V	4V	6V	1kV	63%										0.13	0.70	0.5	3.3	17.8	12.7	NFTS0515MC	NTF
				5V	4.5V	5.5V	1kV	87.5%											0.39	0.24	0.77	10	6	19.5	MER1S0515SC

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information								
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet <i>Available at www.murata-ps.com</i>							
								1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W	D									
15V	0.134A	2W	12V	9V	18V	1kV	81%											0.44	0.36	0.86	11.1	9.2	21.8	NDL1215SC	NDL					
				10.8V	13.2V	1kV	85%													0.4	0.30	0.77	10	7.5	19.5	NMG1215SC	NMG			
			24V	18V	36V	3kV		1kV	84%											0.4	0.30	0.77	10	7.5	19.5	NMK1215SAC	NMK			
						1kV		85%													0.39	0.295	0.55	10	7.5	14	NML1215SC	NML		
						1kV		83%														0.44	0.36	0.86	11.1	9.2	21.8	NDL2415SC	NDL	
	48V	36V	72V	1kV	82%												0.44	0.36	0.86	11.1	9.2	21.8	NDL4815SC							
	0.2A	3W	5V	4.5	9V	3kV	87.5%												0.39	0.24	0.77	10	6	19.5	MEV3S0515SC	MEV3				
							77%															0.28	0.58	1.27	7	14.7	32.3	NDS0515C	NDS	
							73%																0.28	0.58	1.27	7	14.7	32.3	NDY0515C	NDY
							75%																0.45	1.25	0.8	11.4	31.8	20.2	UST-15/200-D5-C	UST-3W
							76%																0.28	0.58	1.27	7	14.7	32.3	NDS1215C	NDS
			12V	9V	18V	1kV	79%													0.28	0.58	1.27	7	14.7	32.3	NDY1215C	NDY			
							75%															0.45	1.25	0.8	11.4	31.8	20.3	UST-15/200-D12-C	UST-3W	
							89%															0.39	0.24	0.77	10	6	19.5	MEV3S1215SC	MEV3	
			24V	18V	36V	1kV	84%													0.28	0.58	1.27	7	14.7	32.3	NDS2415C	NDS			
							82%															0.28	0.58	1.27	7	14.7	32.3	NDY2415C	NDY	
			48V	36V	72V	1kV	80%													0.28	0.58	1.27	7	14.7	32.3	NDS4815C	NDS			
							81%															0.28	0.58	1.27	7	14.7	32.3	NDY4815C	NDY	
			48V	18V	72V	1kV	77%													0.45	1.25	0.8	11.4	31.8	20.3	UST-15/200-D48-C	UST-3W			
			0.267A	4W	5V	4.5V	5.5V	8kV	80%											0.4	2	1	10.2	50.8	25.4	HB04U05S15QC	HB04UC			
					12V	10.8V	13.2V	8kV	87%											0.4	2	1	10.2	50.8	25.4	HB04U12S15QC				
	15V	13.5V			16.5V	8kV	87%												0.4	2	1	10.2	50.8	25.4	HB04U15S15QC					
	0.33A	5W	5V	4.5V	5.5V	1kV	75%											0.39	0.93	0.99	10	23.5	25.0	NMXS0515UC	NMXU					
12V			10.8V	13.2V	1kV	75%											0.39	0.93	0.99	10	23.5	25.0	NMXS1215UC							
24V			18V	36V	1kV	83%												0.45	1	1	11.4	25.4	25.4	UWR-15/335-D24-C	UWR 5W					
48V			36V	72V	1kV	83%												0.45	1	1	11.4	25.4	25.4	UWR-15/335-D48-C						
0.4A	6W	5V	4.5V	5.5V	1kV	65%											0.39	0.93	1.59	10	23.5	40.5	NMXS0515SOC	NMXSO						
		12V	10.8V	13.2V	1kV	65%											0.39	0.93	1.59	10	23.5	40.5	NMXS1215SOC							
		24V	18V	36V	1.5kV	87%												0.39	1.26	0.79	10	32	20	NDS6S2415C	NDS6					
0.53A	8W	5V	4.7V	7.25V	1.5kV	77%											0.45	2	1	11.4	50.8	25.4	UWR-15/530-D5A-C	UWR 6-10W A-SERIES						
0.6A	9W	48V	18V	75V	1.5kV	84%											0.45	2	1	11.4	50.8	25.4	UWR-15/600-D48A-C							
0.67A	10W	12V	9V	18V	1.5kV	85%											0.45	2	1	11.4	50.8	25.4	UWR-15/665-D12A-C							
		24V	18V	36V	1.5kV	86%												0.39	0.98	1.26	10	25	32	NPH10S2415EIC	NPH10S					
						87%														0.39	0.98	1.26	10	25		32	NPH10S4815EIC			
		48V	36V	75V	1.5kV	87%												0.39	0.98	1.26	10	25	32	NPH10S4815EIC						
89%																0.49	2	1	12.5	50.8	25.4	UWR-15/1000-D5A-C	UWR 14-20W A-SERIES							
1A	15W	12V	10V	18V	1.5kV	85%											0.49	2	1	12.5	50.8	25.4	UWR-15/1000-D12A-C	UWR 15W A-SERIES						
		24V	18V	36V	1.5kV	87%												0.39	0.98	1.97	10	25	50	NPH15S2415EIC	NPH15S					
						87%														0.39	0.98	1.97	10	25		50	NPH15S2415EIC			
		48V	36V	75V	1.5kV	89%												0.39	0.98	1.97	10	25	50	NPH15S4815EIC	NPH15S					
						87%														0.49	2	1	12.5	50.8		25.4	UWR-15/1000-D24A-C	UWR 15W A-SERIES		
		24V	9V	36V	2.25kV	85%													0.36	1.1	0.96	9.1	27.9	24.4	UEI15-150-Q12	UEI 15W				
85.3%																			0.36	1.1	0.96	9.1	27.9	24.4	UEI15-150-Q48					
1.1A	16.5W	24V	9V	36V	1.5kV	85%											0.45	2	2	11.4	50.8	50.8	UWR-15/1300-D12A-C	UWR 14-20W A-SERIES						
		48V	18V	75V	1.5kV	86%											0.45	2	2	11.4	50.8	50.8	UWR-15/1300-D48A-C							
1.3A	20W	24V	18V	36V	1.5kV	87%											0.39	1.38	1.97	10	35	50	NPH25S2415EIC	NPH25S						
		87%															0.39	1.38	1.97	10	35	50	NPH25S2415EIC							
		82%																0.55	3.04	2.04	14	77.2	51.8	UMP-15/1.7-Q12-C	UMP 25-40W					
1.7A	25W	48V	36V	75V	1.5kV	89%											0.39	1.38	1.97	10	35	50	NPH25S4815EIC	NPH25S						
		89%															0.39	1.38	1.97	10	35	50	NPH25S4815EIC							

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information								
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com							
								1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W			D						
15V	2A	30W	12V	9V	18V	1.5kV	89%											0.4	2	1.6	10.2	50.8	40.6	UHE-15/2000-D12-C	UHE 12-30W				
				9V	36V	1.5kV	92%													0.4	2	1.6	10.2	50.8		40.6	UHE-15/2000-Q12-C		
			24V	9V	36V	2.25kV	89%													0.92	1.92	0.35	23.4	48.8		8.9	UEI30-150-Q12P-C	UEI30-SERIES	
				18V	36V	1.5kV	90%														0.4	2	1.6	10.2		50.8	40.6	UHE-15/2000-D24-C	UHE 12-30W
			48V	18V	75V	1.5kV	90.5%														0.4	2	1.6	10.2		50.8	40.6	UHE-15/2000-Q48-C	UHE 12-30W
					75V	2.25kV	89.5%														0.92	1.92	0.35	23.4		48.8	8.9	UEI30-150-Q48N-C	UEI30-SERIES
	36V	75V		1.5kV	92%														0.4	2	1.6	10.2	50.8	40.6	UHE-15/2000-D48-C	UHE 12-30W			
	2.50A	37.5W	24V	18V	36V	1.5kV	84%												0.55	3.04	2.04	14	77.2	51.8	UMP-15/2.5-D24-C	UMP 25-40W			
				48V	36V	75V	1.5kV	85%												0.55	3.04	2.04	14	77.2	51.8		UMP-15/2.65-D48-C		
				48V	9V	36V	2.25kV	90%													0.375	1.95	1.55	9.5	49.5		39.4	UEI-15/3.3-Q12P-C	UEI-50/60
	4A	60W	48V	18V	75		89.3%												0.375	1.95	1.55	9.5	49.5	39.4	UEI-15/4-Q48N-C				
				12V	9V	36	2.25kV	91.5%													0.9	2.3	0.38	22.9	58.4	9.7	UWE-15/5-Q12P-C	UWE-SERIES	
	6.7A	100.5W	48V	36V	75V	2.25kV	92%												0.4	2.4	2.3	10.2	61	58.4	UCH-15/6.7-D48N-C	UCH-SERIES			
					75V	2.25kV	92%														0.4	2.3	1.45	10.2	58.4	36.8	UCQ-15/6.7-D48N-C	UCQ-SERIES	
7A	105W	24V	18V	36V	2kV	93%												0.42	2.3	1.45	10.7	58.4	36.8	UVQ-15/7-D24P-C	UVQ-SERIES				
			48V	36V	75V	2.25kV	94%												0.42	2.3	1.45	10.7	58.4	36.8		UVQ-15/7-D48N-C			
			12V	9V	36V	2kV	90.5%													0.43	2.22	1.45	10.9	56.4		36.8	UQQ-15/7-Q12P-C		
18V	5.6A	100.8W	24V	18V	36V	2kV	90%											0.42	2.3	1.45	10.7	58.4	36.8	UVQ-18/5.6-D24P-C	UVQ-SERIES				
	6A	108W	48V	36V	75V	2.25kV	93%											0.42	2.3	1.45	10.7	58.4	36.8	UVQ-18/6-D48N-C					
24V	0.042A	1W	5V	4.5V	5.5V	1kV	80%											0.27	0.39	0.45	6.8	9.8	11.5	NME0524DC	NME				
				4.5V	5.5V	1kV	80%													0.39	0.24	0.45	10	6		11.5	NME0524SC		
	3A	72W	12V	9V	36V	2.25kV	89.5%												0.9	2.3	0.38	22.9	58.4	9.7	UWE-24/3-Q12P-C	UWE-SERIES			
				48V	36V	75V	2.25kV	94%												0.41	2.3	0.9	10.4	58.4	22.9	ULE-24/3-D48N-C	ULE20A		
	4A	96W	12V	9V	36V	2kV	89%												0.43	2.22	1.45	10.9	56.4	36.8	UQQ-24/4-Q12P-C	UQQ 7-15A			
4.5A	108W	24V	18V	36V	2kV	94%													0.42	2.3	1.45	10.7	58.4	36.8	UVQ-24/4.5-D24P-C	UVQ-SERIES			
			48V	36V	75V	2.25kV	94%													0.42	2.3	1.45	10.7	58.42	36.8		UVQ-24/4.5-D48N-C		
28.2V	12A	338.4W	48V	36V	75V	2.25kV	92%											0.49	2.4	2.3	12.5	61.0	58.4	UHP-28.2/12-D48N	UHP28-2-12A				
48V	1.25A	60W	48V	36V	75V	2.25kV	92.5%												0.41	2/3	0.9	10.4	58.4	22.9	ULE-48/1.25-D48N-C	ULE20A			
	2.50A	120W	48V	36V	75V	2.25kV	91.5%												0.42	2.3	1.45	10.7	58.4	36.8	UVQ-48/2.5-D48N-C	UVQ-SERIES			
96V	0.10	9.600	48V	36V	75V	1.5kV	88%											0.4	2	1	10.2	50.8	25.4	UWR-96/100-D48A-C	UWR-96-100				

Dual Output

(Bipolar) Isolated DC/DC Converters



For analog/linear and other applications requiring bipolar/symmetric rail voltages, Murata Power Solutions' isolated duals generate $\pm 3.3V$, $\pm 5V$, $\pm 12V$ or $\pm 15V$ outputs from a single input voltage. Not surprisingly, our offering is the industry's broadest.

We offer bipolar duals with output power ranges from 0.75 to 20 Watts, input voltage ranges from 3 to 75 Volts, and package styles from sub-miniature SIPs, DIPs and SMDs to traditional 2" x 2" (51 x 51mm) through-hole devices. Isolation voltages run as high as 8,000Vdc. When relevant, all products offer

UL/EN safety certifications, CE marks, and EMI/EMC testing.

If your available voltage is anywhere between 3.3 and 75 Volts and your need is $\pm 3.3V$, $\pm 5V$, $\pm 12V$ or $\pm 15V$ at moderate power levels... in a small area... at an affordable cost, we've got your solution.

Quick Selection Guide Listed by output power

Output Power	Vout						Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	$\pm 24V$	
0.75W	•						HPR1XXC
		•					HPR1XXVC
			•				HPR4XXC
1W				•	•		HPR10XXC
	•	•	•	•	•		MEA1
		•	•	•	•		NKA
		•	•	•	•		NMA
		•	•	•	•		NMJ
		•	•	•	•		NMV
		•	•	•	•		NTA
		•	•	•	•		NTV
1.5W	•						PWR13XXC
					•		PWR1726AC

Output Power	Vout						Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	$\pm 24V$	
2W	•	•	•	•	•	•	NMH
	•	•	•	•	•	•	NMK
	•	•	•	•	•	•	NMS
	•	•	•	•	•	•	NTH
3W		•	•	•	•		BST 3W
		•	•	•	•		BWR 3W
		•	•	•	•		NDH
	•	•	•	•	•		NDTD
						•	PWR12XXC
						•	PWR70C
						•	HB04UC
5W	•	•	•	•	•		BWR 5W
	•	•	•	•	•		NMXSO
	•	•	•	•	•		NMXU
					•		PWR1546AC

Output Power	Vout						Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	$\pm 24V$	
6W	•	•	•	•	•		NCS6
	•	•	•	•	•		NDS6
7W	•						BWR 7-10W
7.5W	•	•	•	•	•		NDX
8W	•	•	•	•	•		BWR 7-10W
15W	•	•	•	•	•		BEI
	•	•	•	•	•		BWR 15-17W
	•	•	•	•	•		BWR 15-20W
17W			•	•	•		BWR 15-17W
	•	•	•	•	•		BWR 15-20W
39W	•	•	•	•	•		BMP 25-40W

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style					Package Dimensions					Further Information			
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			1/8	1/4	1/2	SM	TH	DIP	SIP	Inches			mm		Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com
															H	W	D	H	W		
$\pm 3.3V$	$\pm 0.152A$	1W	3.3V	2.97V	3.63V	3kV	74%				•	•	0.21	0.39	0.77	5.4	9.8	19.5	NKA0303DC	NKA	
						1kV	75%				•	•	0.26	0.3	0.6	6.6	7.7	15.2	NTA0303MC		NTA
			5V	4.5V	5.5V	3kV	77%				•	•	0.21	0.39	0.77	5.4	9.8	19.5	NKA0503DC	NKA	
						1kV	77%				•	•	0.26	0.3	0.6	6.6	7.7	15.2	NTA0503MC		NTA
	$\pm 0.454A$	3W	5V	4.5V	9V	1kV	67%				•	•	0.27	0.58	1.27	7.0	14.7	32.3	NDTD0503C	NDTD	
						12V	73%				•	•	0.27	0.58	1.27	7.0	14.7	32.3	NDTD1203C		
						24V	73%				•	•	0.27	0.58	1.27	7.0	14.7	32.3	NDTD2403C		
						48V	72%				•	•	0.27	0.58	1.27	7.0	14.7	32.3	NDTD4803C		
$\pm 5V$	$\pm 0.075A$	0.75W	5V	4.5V	5.5V	0.75kV	68%				•	•	0.4	0.77	0.24	10.1	19.6	6.1	HPR103C	HPR1XXC	
						1kV	68%				•	•	0.4	0.77	0.24	10.1	19.6	6.1	HPR403C	HPR4XX	
						12V	71%				•	•	0.4	0.77	0.24	10.2	19.6	6.1	HPR109C	HPR1XXC	
	$\pm 0.1A$	1W	3.3V	2.97V	3.63V	3kV	79%				•	•	0.21	0.39	0.77	5.4	9.8	19.5	NKA0305DC	NKA	
						1kV	78%				•	•	0.30	0.23	0.65	7.6	6.0	16.6	NKA0305SC		
						1kV	78%				•	•	0.26	0.30	0.60	6.6	7.7	15.2	NTA0305MC		NTA

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information		
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com	
								1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W	D			
±5V	±0.3A	3W	12V	9V	18V	1kV	75%								0.27	0.58	1.27	7	14.7	32.3	NDTD1205C	NDTD	
			24V	18V	36V	1kV	78%									0.27	0.58	1.27	7	14.7	32.3		NDTD2405C
			48V	36V	75V	1kV	76%									0.27	0.58	1.27	7	14.7	32.3		NDTD4805C
	±0.4A	4W	12V	10.8V	13.2V	8kV	88%								0.40	2	1	10.2	50.8	25.4	HB04U12D05QC	HB04UC	
			5V	4.5V	5.5V	1kV	65%									0.39	0.93	1.59	10	23.5	40.5	NMXD0505S0C	NMXSO
	±0.5A	5W					75%								0.39	0.93	0.99	10	23.5	25	NMXD0505UC	NMXU	
			12V	10.8V	13.2V	1kV	65%									0.39	0.93	1.59	10	23.5	40.5	NMXD1205S0C	NMXSO
							75%									0.39	0.93	0.99	10	23.5	25	NMXD1205UC	NMXU
			24V	18V	36V	1kV	78%									0.45	1	1	11.4	25.4	25.4	BWR-5/500-D24-C	BWR-5W
			48V	36V	72V	1kV	78%									0.45	1	1	11.4	25.4	25.4	BWR-5/500-D48-C	
	±0.6A	6W	12V	9V	36V	1.5kV	82%								0.39	1.26	0.79	10	32	20	NCS6D1205C	NCS6	
			24V	18V	36V	1.5kV	83%									0.39	1.26	0.79	10	32	20	NDS6D2405C	NDS6
			48V	18V	75V	1.5kV	80%									0.39	1.26	0.79	10	32	20	NCS6D4805C	NCS6
	±0.7A	7W	5V	4.7V	7.25V	1.5kV	79%								0.38	2	1	9.5	50.8	25.4	BWR-5/700-D5A-C	BWR7-10W A-Series	
			48V	18V	75V	1.5kV	81%									0.38	2	1	9.5	50.8	25.4		BWR-5/700-D48A-C
	±0.75A	7.5W	5V	4.5V	9V	1kV	67%								0.39	0.98	1.26	10	25	32	NDXD0505C	NDX	
																0.39	0.98	1.26	10	25	32		NDXD0505EC
			12V	9V	18V	1kV	73%									0.39	0.98	1.26	10	25	32		NDXD1205C
																0.39	0.98	1.26	10	25	32		NDXD1205EC
			24V	18V	36V	1kV	75%									0.39	0.98	1.26	10	25	32		NDXD2405C
	±0.8A	8W													0.39	0.98	1.26	10	25	32	NDXD2405EC		
			48V	36V	75V	1kV	77%									0.39	0.98	1.26	10	25	32	NDXD4805C	
																0.39	0.98	1.26	10	25	32	NDXD4805EC	
			12V	9V	18V	1.5kV	82%									0.38	2	1	9.5	50.8	25.4	BWR-5/900-D12A-C	BWR7-10W A-Series
	±1.5A	15W	5V	4.7V	7.5V	1.5kV	80%								0.45	2	2	11.4	50.8	50.8	BWR-5/1500-D5A-C	BWR15-20W A-Series	
			12V	10V	18V	1.5kV	81%									0.47	2	1	11.8	50.8	25.4	BWR-5/1500-D12A-C	BWR15-17W A-Series
			24V	9V	36V	2.25kV	84%									0.96	1.1	0.35	24.4	27.9	8.9	BEI15-050-Q12	BEI15-SERIES
				18V	36V	1.5kV	83%									0.47	2	1	11.8	50.8	25.4	BWR-5/1500-D24A-C	BWR15-17W A-Series
			48V	18V	75V	2.25kV	83.5%									0.96	1.1	0.35	24.4	27.9	8.9	BEI15-050-Q48	BEI15-SERIES
	±1.70A	17W					83%								0.47	2	1	11.8	50.8	25.4	BWR-5/1500-D48A-C	BWR15-17W A-Series	
			12V	9V	36V	1.5kV	83%									0.45	2	2	11.4	50.8	50.8	BWR-5/1700-D12A-C	BWR15-20W A-Series
			48V	18V	75V	1.5kV	83%									0.45	2	2	11.4	50.8	50.8	BWR-5/1700-D48A-C	
	±4A	40W	12V	10V	36V	1.5kV	85%								0.55	3.04	2.04	14	77.2	51.8	BMP-5/4-Q12-C	BMP25-40W	
			24V	18V	36V	1.5kV	86%									0.55	3.04	2.04	14	77.2	51.8		BMP-5/4-D24-C
				36V	75V	1.5kV	85%									0.55	3.04	2.04	14	77.2	51.8		BMP-5/4-D48-C
			48V	18V	75V	1.5kV	85%									0.55	3.04	2.04	14	77.2	51.8		BMP-5/4-Q48-C

±9V	±0.055A	1W	3.3V	2.97V	3.63V	3kV	75%								0.21	0.39	0.77	5.4	9.8	19.5	NKA0309DC	NKA					
														0.3	0.23	0.65	7.6	6	16.6	NKA0309SC							
																0.26	0.3	0.6	6.6	7.7	15.2	NTA0309MC	NTA				
			5V	4.5V	5.5V	1kV	86.7										0.27	0.39	0.77	6.8	9.8	19.5	MEA1D0509DC	MEA1			
							86.5										0.39	0.24	0.77	10.0	6.0	19.5	MEA1D0509SC				
						3kV	76%												0.21	0.39	0.77	5.4	9.8	19.5	NKA0509DC	NKA	
																				0.3	0.23	0.65	7.6	6	16.6		NKA0509SC
						1kV	75%													0.27	0.39	0.77	6.8	9.8	19.5	NMA0509DC	NMA
																				0.39	0.24	0.77	10	6	19.5	NMA0509SC	
						5.2kV	65%													0.49	0.39	0.77	12.5	9.8	19.5	NMJ0509SC	NMJ
																				0.27	0.39	0.77	6.8	9.8	19.5	NMV0509DC	
						3kV	76%													0.39	0.24	0.77	10	6	19.5	NMV0509SC	NMV
																				0.26	0.3	0.6	6.6	7.7	15.2	NTA0509MC	
			3kV	77%													0.26	0.3	0.6	6.6	7.7	15.2	NTV0509MC	NTV			
					1kV	86.5												0.27	0.39	0.77	6.8	9.8	19.5	MEA1D1209DC	MEA1		
																	0.39	0.24	0.77	10.0	6.0	19.5	MEA1D1209SC				
			3kV	79%													0.21	0.39	0.77	5.4	9.8	19.5	NKA1209DC	NKA			
																	0.30	0.23	0.65	7.6	6	16.6	NKA1209SC				
			1kV	74%													0.27	0.39	0.77	6.8	9.8	19.5	NMA1209DC	NMA			
																	0.39	0.24	0.77	10.0	6	19.5	NMA1209SC				
													0.49	0.39	0.77	12.5	9.8	19.5	NMJ1209SC	NMJ							

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information					
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet Available at www.murata-ps.com				
								1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W	D						
±9V	±0.055A	1W	12V	10.8V	13.2V	3kV	74%									0.27	0.39	0.77	6.8	9.8	19.5	NMV1209DC	NMV			
						3kV	74%											0.39	0.24	0.77	10	6		19.5	NMV1209SC	
						1kV	74%												0.26	0.3	0.6	6.6		7.7	15.2	NTA1209MC
						3kV	79%												0.26	0.3	0.6	6.6		7.7	15.2	NTV1209MC
			15V	13.5V	16.5V	1kV	87%										0.27	0.39	0.77	6.8	9.8	19.5		MEA1D1509DC	MEA1	
							87.5%											0.39	0.24	0.77	10.0	6.0		19.5		MEA1D1509SC
							80%												0.27	0.39	0.77	6.8		9.8		19.5
			24V	21.6V	26.4V	1kV	87%										0.27	0.39	0.77	6.8	9.8	19.5		MEA1D2409DC	NMV2	
							87.5%											0.39	0.24	0.77	10.0	6.0		19.5		MEA1D2409SC
							80%											0.27	0.39	0.77	6.8	9.8		19.5		NMV2409DC
	48V	43.2V	52.8V	1kV	82%										0.39	0.24	0.77	10.0	6.0	19.5	MEA1D4809SC	MEA1				
					80%											0.3	0.39	0.77	7.7	9.8	19.5		NMV4809DC			
				3kV	80%											0.39	0.3	0.77	10	7.5	19.5	NMV4809SC	NMV2			
					81%											0.3	0.39	0.77	7.7	9.8	19.5	NMH0509DC				
	±0.111A	2W	5V	4.5V	5.5V	1kV	81%									0.4	0.3	0.77	10	7.5	19.5	NMH0509SC	NMH			
						3kV	86%										0.4	0.30	0.77	10	7.5	19.5		NMK0509SC		
						6kV	76%											0.37	0.58	1.28	9.4	14.7		32.6	NMS0509C	
						1kV	81%											0.21	0.5	0.7	6.0	12.7		17.8	NTH0509MC	
						1kV	83%											0.30	0.39	0.77	7.7	9.8		19.5	NMH1209DC	
						1kV	83%											0.4	0.3	0.77	10	7.5		19.5	NMH1209SC	
12V			10.8V	13.2V	3kV	87%										0.4	0.30	0.77	10	7.5	19.5	NMK1209SC	NMK			
						81%										0.37	0.58	1.28	9.4	14.7	32.6	NMS1209C				
					1kV	83%											0.21	0.5	0.7	6.0	12.7	17.8	NTH1209MC	NTH		
						83%											0.3	0.39	0.77	7.7	9.8	19.5	NMH2409DC			
24V	21.6V	26.4V	1kV	85%										0.4	0.3	0.77	10	7.5	19.5	NMH2409SC	NMH					
				82%											0.3	0.39	0.77	7.7	9.8	19.5		NMH4809DC				
48V	43.2V	52.8V	1kV	82%										0.4	0.3	0.77	10	7.5	19.5	NMH4809SC	NMH					

±12V	±0.03A	0.75W	5V	4.5V	5.5V	0.75kV	68%								0.4	0.77	0.24	10.1	19.6	6.1	HPR104C	HPR1XXC		
						1kV	66%										0.4	0.77	0.24	10.1	19.6	6.1	HPR404C	HPR4XXC
			12V	10.8V	13.2V	0.75kV	74%									0.4	0.77	0.24	10.1	19.6	6.1	HPR110C	HPR1XXC	
						1kV	74%										0.4	0.77	0.24	10.1	19.6	6.1	HPR410C	HPR4XXC
			15V	13.5V	16.5V	0.75kV	76%									0.4	0.77	0.24	10.1	19.6	6.1	HPR116C	HPR1XXC	
						0.75kV	67%										0.4	0.77	0.24	10.1	19.6	6.1		HPR122C
			24V	21.6V	26.4V	1kV	67%									0.4	0.77	0.24	10.1	19.6	6.1	HPR422C	HPR4XXC	
						±0.042A	1W	3.3V	2.97V	3.63V	3kV	78%								0.21	0.39	0.77	5.4	9.8
			1kV	77%															0.26	0.3	0.6	6.6	7.7	15.2
			5V	4.5V	5.5V			1kV	87%									0.27	0.39	0.77	6.8	9.8	19.5	MEA1D0512DC
	70%																0.39	0.24	0.77	10.0	6.0	19.5	MEA1D0512SC	
	78%																0.4	0.77	0.24	10.1	19.6	6.1	HPR1004C	HPR10XXC
		78%															0.21	0.39	0.77	5.4	9.8	19.5	NKA0512DC	
		77%															0.3	0.23	0.65	7.6	6	16.6	NKA0512SC	
		77%															0.27	0.39	0.77	6.8	9.8	19.5	NMA0512DC	
	12V	10.8V	13.2V	5.2kV	65%											0.39	0.24	0.77	10	6	19.5	NMA0512SC	NMA	
					65%												0.49	0.39	0.77	12.5	9.8	19.5		NMJ0512SC
				3kV	78%										0.27	0.39	0.77	6.8	9.8	19.5	NMV0512DC	NMV		
					77%										0.39	0.24	0.77	10	6	19.5	NMV0512SC			
				1kV	77%										0.26	0.3	0.6	6.6	7.7	15.2	NTA0512MC	NTA		
79%														0.26	0.3	0.6	6.6	7.7	15.2	NTV0512MC				
12V				10.8V	13.2V	1kV	89%									0.27	0.39	0.77	6.8	9.8	19.5	MEA1D1212DC	MEA1	
							81%										0.39	0.24	0.77	10.0	6.0	19.5		MEA1D1212SC
	3kV	81%												0.21	0.39	0.77	5.4	9.8	19.5	NKA1212DC	NKA			
		75%												0.30	0.23	0.65	7.6	6	16.6	NKA1212SC				
	1kV	75%												0.27	0.39	0.77	6.8	9.8	19.5	NMA1212DC	NMA			
		75%												0.39	0.24	0.77	10	6	19.5	NMA1212SC				
5.2kV	65%										0.49	0.39	0.77	12.5	9.8	19.5	NMJ1212SC	NMJ						
	75%										0.27	0.39	0.77	6.8	9.8	19.5	NMV1212DC							
3kV	75%										0.39	0.24	0.77	10	6	19.5	NMV1212SC	NMV						

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information						
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet Available at <small>www.murata-ps.com</small>					
								1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W	D							
±12V	±0.042A	1W	12V	10.8V	13.2V	1kV	75%									0.26	0.3	0.6	6.6	7.7	15.2	NTA1212MC	NTA				
						3kV	80%										0.26	0.3	0.6	6.6	7.7	15.2	NTV1212MC	NTV			
			15V	13.5V	16.5V	1kV	87.5%										0.27	0.39	0.77	6.8	9.8	19.5	MEA1D1512DC	MEA1			
							78%											0.39	0.24	0.77	10.0	6.0	19.5		MEA1D1512SC		
						3kV	75%											0.27	0.39	0.77	6.8	9.8	19.5	NMA1512DC	NMA		
																		0.39	0.24	0.77	10	6	19.5	NMA1512DC			
	24V	21.6V	26.4V	1kV	87%											0.27	0.39	0.77	6.8	9.8	19.5	MEA1D2412DC	MEA1				
																0.39	0.24	0.77	10.0	6.0	19.5	MEA1D2412SC					
	24V	21.6V	26.4V	3kV	80%											0.27	0.39	0.77	6.8	9.8	19.5	NMV2412DC	NMV2				
																0.39	0.24	0.77	10	6	19.5	NMV2412SC					
	48V	43.2V	52.8V	1kV	83%											0.27	0.39	0.77	6.8	9.8	19.5	MEA1D4812SC	MEA1				
				3kV	80%												0.3	0.39	0.77	7.7	9.8	19.5	NMV4812DC	NMV2			
																0.39	0.3	0.77	10	7.5	19.5	NMV4812SC					
	±0.063A	1.5W	5V	4.5V	5.5V	8kV	75%									0.4	1.27	0.81	10.2	32.3	20.5	PWR1304AC	PWR13XXC				
			12V	10.8V	13.2V	8kV	75%										0.4	1.27	0.81	10.2	32.3	20.5		PWR1310AC			
	±0.083A	2W	5V	4.5V	5.5V	1kV	82%									0.3	0.39	0.77	7.7	9.8	19.5	NMH0512DC	NMH				
																			0.4	0.3	0.77	10		7.5	19.5	NMH0512SC	
						3kV	87%													0.4	0.30	0.77	10	7.5	19.5	NMK0512SC	NMK
						6kV	77%													0.37	0.58	1.28	9.4	14.7	32.6	NMS0512C	NMS
			1kV	82%													0.21	0.5	0.7	6.0	12.7	17.8	NTH0512MC	NTH			
			12V	10.8V	13.2V	1kV	84%											0.30	0.39	0.77	7.7	9.8	19.5	NMH1212DC	NMH		
																			0.4	0.3	0.77	10	7.5	19.5	NMH1212SC	NMH	
						3kV	87%													0.4	0.30	0.77	10	7.5	19.5	NMK1212SC	NMK
						6kV	82%													0.37	0.58	1.28	9.4	14.7	32.6	NMS1212C	NMS
						1kV	84%											0.21	0.5	0.7	6.0	12.7	17.8	NTH1212MC	NTH		
	24V	21.6V	26.4V	1kV	86%											0.3	0.39	0.77	7.7	9.8	19.5	NMH2412DC	NMH				
																	0.4	0.3	0.77	10	7.5	19.5		NMH2412SC			
	48V	43.2V	52.8V	1kV	85%											0.3	0.39	0.77	7.7	9.8	19.5	NMH4812DC	NMH				
																	0.4	0.3	0.77	10	7.5	19.5		NMH4812SC			
	±0.11A	3W	5V	4.5V	9V	1kV	73%									0.45	1.25	0.8	11.4	31.8	20.3	BST-12/105-D5-C	BST-3W				
							72%												0.45	1.25	0.8	11.4	31.8	20.3	BWR-12/105-D5-C	BWR 3W	
	±0.13A	3W	5V	4.5V	9V	1kV	76%									0.27	0.58	1.27	7	14.7	32.3	NDTD0512C	NDTD				
							76%												0.45	1.25	0.8	11.4	31.8	20.3	BST-12/125-D12-C	BST-3W	
			12V	9V	18V	1kV	75%										0.45	1.25	0.8	11.4	31.8	20.3	BWR-12/125-D12-C	BWR 3W			
							78%												0.27	0.58	1.27	7	14.7	32.3	NDTD1212C	NDTD	
			24V	18V	36V	1kV	81%										0.49	0.36	1.02	12.5	9.3	26	NDH2412SC	NDH			
							82%												0.27	0.58	1.27	7	14.7	32.3	NDTD2412C	NDTD	
			48V	18V	72V	1kV	77%										0.45	1.25	0.8	11.4	31.8	20.3	BST-12/125-D48-C	BST-3W			
							80%												0.45	1.25	0.8	11.4	31.8	20.3	BWR-12/125-D48-C	BWR 3W	
	36V	75V	1kV	78%										0.49	0.36	1.02	12.5	9.3	26	NDH4812SC	NDH						
	75V		1kV	80%											0.27	0.58	1.27	7	14.7	32.3	NDTD4812C	NDTD					
±0.167A	4W	15V	13.5V	16.5V	8kV	88%									0.4	2	1	10	50.8	25.4	HB04U15D12QC	HB04UC					
±0.21A	5W	5V	4.5V	5.5V	1kV	75%									0.4	1	1	10	23.5	25	NMXD0512UC	NMXU					
		12V	10.8V	13.2V	1kV	75%									0.4	1	1	10	23.5	25	NMXD1212UC						
		24V	18V	36V	1kV	82%										0.4	1	1	11.4	25.4	25.4	BWR-12/210-D24-C	BWR-5W				
		48V	36V	72V	1kV	82%										0.4	1	1	11.4	25.4	25.4	BWR-12/210-D48-C					
±0.235A	5.6W	5V	4.5V	5.5V	1kV	65%									0.4	0.93	1.59	10.2	23.5	40.5	NMXD0512SOC	NMXSO					
		12V	10.8V	13.2V	1kV	65%										0.4	0.93	1.59	10.2	23.5	40.5		NMXD1212SOC				
±0.25A	6W	12V	9V	36V	1.5kV	86%									0.39	1.26	0.79	10	32	20	NCS6D1212C	NCS6					
		24V	18V	36V	1.5kV	87%										0.39	1.26	0.79	10	32	20	NDS6D2412C	NDS6				
		48V	18V	75V	1.5kV	84%										0.39	1.26	0.79	10	32	20	NCS6D4812C	NCS6				
±0.312A	7.5W	5V	4.5V	9V	1kV	69%									0.4	1	1.26	10	25	32	NDXD0512C	NDX					
																0.4	1	1.26	10	25	32		NDXD0512EC				
		12V	9V	18V	1kV	78%										0.4	1	1.26	10	25	32		NDXD1212C				
															0.4	1	1.26	10	25	32	NDXD1212EC						

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information	
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks		SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com	
								1/8	1/4					1/2	H	W	D	H	W			D
±12V	±0.312A	7.5W	24V	18V	36V	1kV	81%						0.4	1	1.26	10	25	32	NDXD2412C	NDX		
			48V	36V	75V	1kV	82%							0.4	1	1.26	10	25	32		NDXD2412EC	
													0.4	1	1.26	10	25	32	NDXD4812C			
													0.4	1	1.26	10	25	32	NDXD4812EC			
		±0.34A	8W	5V	4.7V	7.25V	1.5kV	78%						0.4	2	1	9.5	50.8	25.4	BWR-12/335-D5A-C	BWR 7-10W A-Series	
				12V	9V	18V	1.5kV	84%						0.4	2	1	9.5	50.8	25.4	BWR-12/415-D12A-C		
		±0.42A	10W	48V	18V	75V	1.5kV	84%						0.4	2	1	9.5	50.8	25.4	BWR-12/415-D48A-C		
		±0.625A	15W	24V	9V	36V	2.25kV	86%						0.96	1.1	0.35	24.4	27.9	8.9	BEI15-120-Q12	BEI15-SERIES	
				48V	18V	75V	1.5kV	85.5%						0.96	1.1	0.35	24.4	27.9	8.9	BEI15-120-Q48		
		±0.63A	15W	5V	4.7V	7.5V	1.5kV	81%						0.45	2	2	11.4	50.8	50.8	BWR-12/625-D5A-C	BWR 15-20W A-Series	
		±0.73A	17W	12V	10V	18V	1.5kV	83.5%						0.47	2	1	11.8	50.8	25.4	BWR-12/725-D12A-C	BWR 15-17W A-Series	
				24V	18V	36V	1.5kV	85%							0.47	2	1	11.8	50.8	25.4		BWR-12/725-D24A-C
				48V	36V	75V	1.5kV	86%							0.47	2	1	11.8	50.8	25.4		BWR-12/725-D48A-C
		±0.83A	20W	24V	9V	36V	1.5kV	83%						0.45	2	2	11.4	50.8	50.8	BWR-12/830-D12A-C	BWR 15-20W A-Series	
				48V	18V	75V	1.5kV	83%							0.45	2	2	11.4	50.8	50.8	BWR-12/830-D48A-C	BWR 15-20W A-Series
		±1.65	40.00	24V	18V	36V	1.5kV	87%						0.55	3	2	14	77.2	51.8	BMP-12/1.65-D24-C	BMP 25-40W	
				10V	36V	1.5kV	85%								0.55	3	2	14	77.2	51.8		BMP-12/1.65-Q12-C
	36V			75V	1.5kV	87%								0.55	3	2	14	77.2	51.8	BMP-12/1.65-D48-C		
	48V	18V	75V	1.5kV	86%							0.55	3	2	14	77.2	51.8	BMP-12/1.65-Q48-C				

±15V	±0.025A	0.75W	5V	4.5V	5.5V	0.75kV	75%						0.4	0.77	0.24	10.2	19.6	6.1	HPR105C	HPR1XXC						
						1kV	75%						0.4	0.77	0.24	10.2	19.6	6.1	HPR405C	HPR4XXC						
			12V	10.8V	13.2V	0.75kV	77%								0.4	0.77	0.24	10.2	19.6	6.1	HPR111C	HPR1XXC				
						1kV	77%						0.4	0.77	0.24	10.2	19.6	6.1	HPR411C	HPR4XXC						
			15V	13.5V	16.5V	0.75kV	79%								0.4	0.77	0.24	10.2	19.6	6.1	HPR117C	HPR1XXC				
						1kV	79%						0.38	0.79	0.53	9.5	19.9	13.3	HPR117VC	HPR1XXVC						
	24V	21.6V	26.4V	0.75kV	69%								0.4	0.77	0.24	10.2	19.6	6.1	HPR123C	HPR1XXC						
				1kV	69%						0.4	0.77	0.24	10.2	19.6	6.1	HPR423C	HPR4XXC								
	±0.033A	1W	1W	3.3V	2.97V	3.63V	3kV	79%						0.21	0.39	0.77	5.4	9.8	19.5	NKA0315DC	NKA					
							1kV	77%						0.30	0.23	0.65	7.6	6	16.6	NKA0315SC	NTA					
				5V	4.5V	5.5V	1kV	70%								0.4	0.77	0.24	10.2	19.6	6.1	HPR1005C	HPR10XXC			
								87.5%							0.27	0.39	0.77	6.8	9.8	19.5	MEA1D0515DC	MEA1				
							87%							0.39	0.24	0.77	10.0	6.0	19.5	MEA1D0515SC	NKA					
							3kV	79%						0.21	0.39	0.77	5.4	9.8	19.5	NKA0515DC	NMA					
														0.30	0.23	0.65	7.6	6.0	16.6	NKA0515SC	NMJ					
							1kV	78%						0.27	0.39	0.77	6.8	9.8	19.5	NMA0515DC	NMV					
				5V	4.5V	5.5V	5.2kV	65%								0.49	0.39	0.77	12.5	9.8	19.5	NMJ0515SC	NMV0515DC			
								79%						0.27	0.39	0.77	6.8	9.8	19.5	NMV0515SC	NTA					
							1kV	78%						0.26	0.30	0.60	6.6	7.7	15.2	NTA0515MC	NTV					
							3kV	80%						0.26	0.30	0.60	6.6	7.7	15.2	NTV0515MC	MEA1					
							12V	10.8V	13.2V	1kV	88%								0.27	0.39	0.77	6.8	9.8	19.5	MEA1D1215DC	MEA1
																		0.39	0.24	0.77	10.0	6.0	19.5	MEA1D1215SC	NKA	
				3kV	82%									0.21	0.39	0.77	5.4	9.8	19.5	NKA1215DC	NMA					
														0.30	0.23	0.65	7.6	6.0	16.6	NKA1215SC	NMV					
				1kV	76%									0.27	0.39	0.77	6.8	9.8	19.5	NMA1215DC	NTA					
				5.2kV	65%									0.49	0.39	0.77	12.5	9.8	19.5	NMJ1215SC	NTV					
				15V	13.5V	16.5V	3kV	76%								0.27	0.39	0.77	6.8	9.8	19.5	NMV1215DC	MEA1			
													0.39	0.24	0.77	10.0	6.0	19.5	NMV1215SC	NMA						
1kV							76%						0.26	0.30	0.60	6.6	7.7	15.2	NTA1215MC							
3kV							82%						0.26	0.30	0.60	6.6	7.7	15.2	NTV1215MC							
													0.27	0.39	0.77	6.8	9.8	19.5	MEA1D1515DC							
													0.39	0.24	0.77	10.0	6.0	19.5	MEA1D1515SC							
										0.27	0.39	0.77	6.8	9.8	19.5	NMA1515DC										
										0.39	0.24	0.77	10.0	6.0	19.5	NMA1515SC										

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information							
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks		1/8	1/4	1/2	SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com				
								H	W								D	H	W	D								
±15V	±0.033A	1W	15V	13.5V	16.5V	3kV	77%								0.39	0.24	0.77	10.0	6.0	19.5	NMV1515SC	NMV						
							72%																	HPR1023C	HPR10XXC			
			24V	21.6V	26.4V	1kV	88%										0.27	0.39	0.77	6.8	9.8	19.5	MEA1D2415DC	MEA1				
							88.5%																		MEA1D2415SC			
			48V	43.2V	52.8V	1kV	80%										0.27	0.39	0.77	6.8	9.8	19.5	NMV2415DC	NMV2				
							80%																		NMV2415SC			
						3kV	83.5												0.39	0.24	0.77	10.0	6.0	19.5	MEA1D4815SC	MEA1		
							80%													0.30	0.39	0.77	7.7	9.8	19.5	NMV4815DC	NMV2	
			5V	4.5V	5.5V	8kV	75%										0.40	1.27	0.81	10.2	32.3	20.5	PWR1305AC	PWR13XXC				
							10.8V	13.2V	8kV	75%																PWR1311AC		
	7V	16V					5kV	69%										0.41	1.65	1.13	10.3	41.9	28.6		PWR1726AC	PWR1726AC		
	15V	13.5V	16.5V	8kV	75%										0.40	1.27	0.81	10.2	32.3	20.5	PWR1317AC	PWR13XXC						
	±0.067A	2W	5V	4.5V	5.5V	1kV	84%									0.30	0.39	0.77	7.7	9.8	19.5	NMH0515DC	NMH					
							84%																			NMH0515SC		
							3kV	87%													0.4	0.30	0.77	10	7.5	19.5	NMK0515SC	NMK
								6kV	78%												0.37	0.58	1.28	9.4	14.7	32.6	NMS0515C	NMS
			12V	10.8V	13.2V	1kV	84%										0.21	0.50	0.70	6.0	12.7	17.8	NTH0515MC	NTH				
							84%																		NMH1215DC	NMH		
							3kV	87%												0.40	0.30	0.77	10.0	7.5	19.5		NMH1215SC	
							6kV	82%												0.37	0.58	1.28	9.4	14.7	32.6	NMS1215C	NMS	
			15V	13.5V	16.5V	1kV	84%										0.21	0.50	0.70	6.0	12.7	17.8	NTH1215MC	NTH				
							84%													0.40	0.30	0.77	10.0	7.5	19.5	NMH1515SC	NMH	
			24V	21.6V	26.4V	1kV	86%										0.30	0.39	0.77	7.7	9.8	19.5	NMH2415DC	NMH				
							86%													0.40	0.30	0.77	10.0		7.5	19.5	NMH2415SC	
			48V	43.2V	52.8V	1kV	85%										0.30	0.39	0.77	7.7	9.8	19.5	NMH4815DC	NMH				
							85%													0.40	0.30	0.77	10.0		7.5	19.5	NMH4815SC	
			±0.1A	3W	5V	4.5V	9V	1kV	74%									0.45	1.25	0.80	11.4	31.8	20.3	BST-15/85-D5-C	BST-3W			
									72%																		BWR-15/85-D5-C	BWR-3W
	75%																			0.27	0.58	1.27	7.0	14.7	32.3	NDTD0515C	NDTD	
	12V	9V			18V	1kV	76%										0.45	1.25	0.80	11.4	31.8	20.3	BST-15/100-D12-C	BST-3W				
							75%																		BWR-15/100-D12-C	BWR-3W		
							78%													0.27	0.58	1.27	7.0	14.7	32.3	NDTD1215C	NDTD	
	15V	10V			18V	5kV	66%										0.41	1.13	1.13	10.7	28.6	28.6	PWR70C	PWR70C				
							82%													0.49	0.36	1.02	12.5	9.3	26.0	NDH2415SC	NDH	
	48V	18V			72V	1kV	77%										0.27	0.58	1.27	7.0	14.7	32.3	NDTD2415C	NDTD				
							80%													0.45	1.25	0.80	11.4	31.8	20.3	BST-15/100-D48-C	BST-3W	
							78%													0.45	1.25	0.80	11.4	31.8	20.3	BWR-15/100-D48-C	BWR-3W	
							81%													0.49	0.36	1.02	12.5	9.3	26.0	NDH4815SC	NDH	
							81%													0.27	0.58	1.27	7.0	14.7	32.3	NDTD4815C	NDTD	
	±0.133A	4W			12V	10.8V	13.2V	8kV	88%								0.40	2.00	1.00	10.2	50.8	25.4	HB04U12D15QC	HB04UC				
			15V	13.5V	16.5V	8kV	88%									0.40	2.00	1.00	10.2	50.8	25.4	HB04U15D15QC						
	±0.167A	5W	5V	4.5V	5.5V	1kV	75%									0.39	0.93	0.99	10.0	23.5	25.0	NMXD0515UC	NMXU					
							0.75kV	60%																	PWR1546AC	PWR1546A		
			12V	10.8V	13.2V	1kV	75%									0.39	0.93	0.99	10.0	23.5	25.0	NMXD1215UC	NMXU					
			24V	18V	36V	1kV	83%									0.45	1.00	1.00	11.4	25.4	25.4	BWR-15/165-D24-C	BWR-5W					
	48V	36V	72V	1kV	82%									0.45	1.00	1.00	11.4	25.4	25.4	BWR-15/165-D48-C								
	±0.20A	6W	5V	4.5V	5.5V	1kV	65%									0.39	0.93	1.59	10.0	23.5	40.5	NMXD0515SOC	NMXSO					
							9V	36V	1.5kV	87%									0.39	1.26	0.79	10	32	20	NCS6D1215C	NCS6		
			12V	10.8V	13.2V	1kV	65%									0.39	0.93	1.59	10.0	23.5	40.5	NMXD1215SOC	NMXSO					
			24V	18V	36V	1.5kV	87.5%									0.39	1.26	0.79	10	32	20	NDS6D2415C	NDS6					
	48V	18V	75V	1.5kV	84%									0.39	1.26	0.79	10	32	20	NCS6D4815C	NCS6							

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information		
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks			SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com	
								1/8	1/4	1/2					H	W	D	H	W	D			
±15V	±0.25A	7.5W	12V	9V	18V	1kV	79%								0.39	0.98	1.26	10.0	25.0	32.0	NDXD1215C	NDX	
																0.39	0.98	1.26	10.0	25.0	32.0		NDXD1215EC
			24V	18V	36V	1kV	82%									0.39	0.98	1.26	10.0	25.0	32.0		NDXD2415C
																0.39	0.98	1.26	10.0	25.0	32.0		NDXD2415EC
		48V	36V	75V	1kV	82%										0.39	0.98	1.26	10.0	25.0	32.0		NDXD4815C
																0.39	0.98	1.26	10.0	25.0	32.0		NDXD4815EC
		±0.28A	8W	5V	4.7V	7.25V	1.5kV	79%							0.38	2.00	1.00	9.5	50.8	25.4	BWR-15/275-D5A-C	BWR 7-10W A-Series	
		±0.33A	10W	12V	9V	18V	1.5kV	84%							0.38	2.00	1.00	9.5	50.8	25.4	BWR-15/330-D12A-C		
				48V	18V	75V	1.5kV	84%								0.38	2.00	1.00	9.5	50.8	25.4		BWR-15/330-D48A-C
		±0.50A	15W	5V	4.7V	7.5V	1.5kV	82%							0.45	2.00	2.00	11.4	50.8	50.8	BWR-15/500-D5A-C	BWR 15-20W A-Series	
				24V	9V	36V	2.25kV	84%								0.96	1.1	0.35	24.4	27.9	8.9	BEI15-150-Q12	BEI15-SERIES
				48V	18V	75V		86%									0.96	1.1	0.35	24.4	27.9	8.9	
		±0.58A	17W	12V	10V	18V	1.5kV	84%							0.47	2.00	1.00	11.8	50.8	25.4	BWR-15/575-D12A-C	BWR 15-17W A-Series	
				24V	18V	36V	1.5kV	86%								0.47	2.00	1.00	11.8	50.8	25.4		BWR-15/575-D24A-C
				48V	36V	75V	1.5kV	87%								0.47	2.00	1.00	11.8	50.8	25.4		BWR-15/575-D48A-C
		±0.67A	20W	12V	9V	36V	1.5kV	83%							0.45	2.00	2.00	11.4	50.8	50.8	BWR-15/670-D12A-C	BWR 15-20W A-Series	
				48V	18V	75V	1.5kV	84%								0.45	2.00	2.00	11.4	50.8	50.8		BWR-15/670-D48A-C
		±1.30	39A	12V	10V	36V	1.5kV	85%							0.55	3.04	2.04	14.0	77.2	51.8	BMP-15/1.3-Q12-C	BMP 25-40W A-Series	
				24V	18V	36V	1.5kV	88%								0.55	3.04	2.04	14.0	77.2	51.8		BMP-15/1.3-D24-C
					36V	75V	1.5kV	87%								0.55	3.04	2.04	14.0	77.2	51.8		BMP-15/1.3-D48-C
				48V	18V	75V	1.5kV	85%								0.55	3.04	2.04	14.0	77.2	51.8		BMP-15/1.3-Q48-C

Dual Output

(Asymmetric) Isolated DC/DC Converters



When your application requires multiple positive voltages and you can't easily derive one from the other using a non-isolated PoL, consider an asymmetric dual.

Asymmetric duals are isolated, 2-output DC/DC converters that typically provide two low voltages such as 3.3V and 1.8V. As such, they are ideal for driving the core and

I/O logic of complex PLDs or ASICs. On DSL line cards, they can power both the DSP and the line drivers. In evolving process-control systems, they can power older 5V logic and newer 3.3V micros.

Asymmetric duals provide the real estate and cost savings of a single package with one set of input circuitry (stand-up caps, filters,

etc.). On the output side, many duals feature 2-loop designs that effectively deliver two independently regulated converters in a single package . . . with a standard pinout and internationally recognized safety approvals. Why evaluate and qualify two devices when you can do one . . . for less money?

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information						
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com					
								1/8	1/4	1/2	SM	TH	DIP	SIP	H	W	D	H	W	D							
5/3.3V	0.1/0.152A	1W	5V	4.5V	5.5V	1.0kV	70%											0.27	0.39	0.77	6.8	9.8	19.5	NMD050503DC	NMD		
																				0.39	0.24	0.77	10.0	6.0		19.5	NMD050503SC
	2.65/3A	15W	12V	10V	18V	1.5kV	86%												0.52	2.00	1.00	13.2	50.8	25.4	DSM-5/2.65-3.3/3-D12-C	DSM-15W	
			24V	18V	36V	1.5kV	86%													0.45	2.00	1.00	11.4	50.8	25.4		DSM-5/2.65-3.3/3-D24-C
			48V	36V	75V	1.5kV	86%													0.52	2.00	1.00	11.4	50.8	25.4		DSM-5/2.65-3.3/3-D24-C
																					0.52	2.00	1.00	13.2	50.8		25.4
	3/4.25A	30W	12V	10V	18V	1.5kV	85%													0.48	2.00	2.00	12.2	50.8	50.8	BWR-5/3-3.3/4.25-D12A-C	BWR-5/3.3 30W
			24V	18V	36V	1.5kV	88%													0.48	2.00	2.00	12.2	50.8	50.8	BWR-5/3-3.3/4.25-D24A-C	
			48V	36V	75V	1.5kV	88%													0.48	2.00	2.00	12.2	50.8	50.8	BWR-5/3-3.3/4.25-D48A-C	
	6/7A	33W	12V	10V	18V	1.5kV	86%													0.45	2.00	2.00	11.4	50.8	50.8	BWR-5/6-3.3/7-D12-C	BWR-5/3.3 33W
			24V	18V	36V	1.5kV	88%													0.45	2.00	2.00	11.4	50.8	50.8	BWR-5/6-3.3/7-D24-C	
			48V	36V	75V	1.5kV	88%													0.45	2.00	2.00	11.4	50.8	50.8	BWR-5/6-3.3/7-D48-C	
4.7/3.5A	35W	24V	18V	36V	1.5kV	81%													0.55	3.04	2.04	14.0	77.2	51.8	BMP-5/5-3.3/4-D24-C	BMP5-5	
		48V	36V	75V	1.5kV	82%													0.55	3.04	2.04	14.0	77.2	51.8	BMP-5/5-3.3/4-D48-C		
		24V	18V	36V	1.5kV	87%													0.53	2.40	2.30	13.3	61.0	58.4	BCP-5/15-3.3/15-D24-C		
15/15A	75W	24V	18V	36V	1.5kV	87%													0.53	2.40	2.30	13.3	61.0	58.4	BCP-5/15-3.3/15-D48-C	BCP-75W	
		24V	18V	36V	1.5kV	87%													0.53	2.40	2.30	13.3	61.0	58.4	BCP-5/15-3.3/15-D48-C		
5/5V	0.1/0.1A	1W	5V	4.5V	5.5V	1.0kV	70%												0.27	0.39	0.77	6.8	9.8	19.5	NMD050505DC	NMD	
																				0.39	0.24	0.77	10.0	6.0	19.5		NMD050505SC
			12V	10.8V	13.2V	1.0kV	70%													0.27	0.39	0.77	6.8	9.8	19.5		NMD120505DC
																		0.39	0.24	0.77	10.0	6.0	19.5	NMD120505SC			
5/9V	0.1/0.056A	1W	5V	4.5V	5.5V	1.0kV	80%												0.27	0.39	0.77	6.8	9.8	19.5	NMD050509DC	NMD	
																				0.39	0.24	0.77	10.0	6.0	19.5		NMD050509SC
			12V	10.8V	13.2V	1.0kV	80%													0.27	0.39	0.77	6.8	9.8	19.5		NMD120509DC
																		0.39	0.24	0.77	10.0	6.0	19.5	NMD120509SC			
5/12V	0.1/0.042A	1W	5V	4.5V	5.5V	1.0kV	80%												0.27	0.39	0.77	6.8	9.8	19.5	NMD050512DC	NMD	
																				0.39	0.24	0.77	10.0	6.0	19.5		NMD050512SC
			12V	10.8V	13.2V	1.0kV	80%													0.27	0.39	0.77	6.8	9.8	19.5		NMD120512DC
																		0.39	0.24	0.77	10.0	6.0	19.5	NMD120512SC			
5/15V	0.1/0.034A	1W	5V	4.5V	5.5V	1.0kV	80%												0.27	0.39	0.77	6.8	9.8	19.5	NMD050515DC	NMD	
																				0.39	0.24	0.77	10.0	6.0	19.5		NMD050515SC
			12V	10.8V	13.2V	1.0kV	80%													0.27	0.39	0.77	6.8	9.8	19.5		NMD120515DC
																		0.39	0.24	0.77	10.0	6.0	19.5	NMD120515SC			

Triple Output Isolated DC/DC Converters



If your challenge is to power an entire mixed-signal, analog/digital, system partition from a single dc source voltage, Murata Power Solutions' high-quality, triple-output DC/DC converters can provide your total solution.

Operating from inputs as low as 4.7V or as high as 75V, each of these full-featured power

converters offers a 3.3V or 5V primary output (with current as high as 30 Amps) and either $\pm 12V$ or $\pm 15V$ auxiliary outputs (with currents as high as ± 4.2 Amps).

Our versatile offering includes: the industry's smallest triples (1 x 2 inches, 25 x 50mm) at 8-22W power levels; slightly larger, wide-input (9-36V and 18-75V) devices at

20-30 Watt levels; and traditional 1/2-bricks at 100 Watts. One unique product offers 24, 48 and 72V outputs.

Before you buy two or three DC/DC converters to accomplish your task, see if a single 3-output device from Murata Power Solutions does the job.

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information	
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks		SM	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com	
								1/8	1/4					1/2	H	W	D	H	W			D
3.3/±12V	4/±0.3A	20W	12V	10V	18V	1.5kV	85%						0.49	2	1	12.5	50.8	25.4	TWR-3.3/4-12/300-D12-C	TWR-22W		
	4.25/±0.63A	30W	24V	18V	36V	1.5kV	86%						0.50	2	2	12.7	50.8	50.8	TWR-3.3/4250-12/625-D24-C	TWR-30W		
			48V	36V	75V	1.5kV	87%							0.50	2	2	12.7	50.8	50.8		TWR-3.3/4250-12/625-D48-C	
3.3/±15V	4/±0.25A	21W	24V	18V	36V	1.5kV	86%						0.49	2	1	12.5	50.8	25.4	TWR-3.3/4-15/250-D24-C	TWR-22W		
	4.25/±0.5A	30W	48V	36V	75V	1.5kV	87%						0.49	2	1	12.5	50.8	25.4	TWR-3.3/4-15/250-D48-C	TWR-22W		
			24V	18V	36V	1.5kV	86%							0.50	2	2	12.7	50.8	50.8		TWR-3.3/4250-15/500-D24-C	
			48V	36V	75V	1.5kV	87%						0.50	2	2	12.7	50.8	50.8	TWR-3.3/4250-15/500-D48-C	TWR-30W		
5/±12V	1/±0.13A	8W	5V	4.7V	7V	1.5kV	76%						0.38	2	1	9.5	50.8	25.4	TWR-5/1000-12/125-D5A-C	TWR8-11W		
	1/±0.21A	8W	12V	9V	18V	1.5kV	82%						0.38	2	1	9.5	50.8	25.4	TWR-5/1000-12/210-D12A-C			
			24V	18V	36V	1.5kV	84%							0.38	2	1	9.5	50.8	25.4		TWR-5/1000-12/210-D24A-C	
			48V	36V	72V	1.5kV	85%							0.38	2	1	9.5	50.8	25.4		TWR-5/1000-12/210-D48A-C	
	1.2/±0.25A	12W	48V	18V	72V	1.5kV	81%						0.45	2	2	11.4	50.8	50.8	TWR-5/1200-12/250-D48A-C	TWR12-15W		
	1.5/±0.25A	14W	48V	18V	72V	1.5kV	79%						0.45	2	2	11.4	50.8	50.8	TWR-5/1500-12/250-D48A-C	TWR 20W A-SERIES		
	3/±0.5A	20W	24V	9V	36V	1.5kV	82%						0.45	2	2	11.4	50.8	50.8	TWR-5/3000-12/500-D12A-C			
			48V	18V	75V	1.5kV	83%							0.45	2	2	11.4	50.8	50.8	TWR-5/3000-12/500-D48A-C		
	3/±0.3A	22W	12V	10V	18V	1.5kV	85%							0.49	2	1	12.5	50.8	25.4	TWR-5/3-12/300-D12-C	TWR-22W	
			24V	18V	36V	1.5kV	86%							0.49	2	1	12.4	50.8	25.4	TWR-5/3-12/300-D24-C		
			48V	36V	75V	1.5kV	87%							0.49	2	1	12.5	50.8	25.4	TWR-5/3-12/300-D48-C		
	5/±1A	25W	24V	10V	36V	1.5kV	84%							0.55	3	2	14	77.2	51.8	TMP-5/5-12/1-Q12-C	TMP25-40W	
48V			18V	75V	1.5kV	86%							0.55	3	2	14	77.2	51.8	TMP-5/5-12/1-Q48-C			
30W		24V	18V	36V	1.5kV	85%							0.55	3	2	14	77.2	51.8	TMP-5/5-12/1-D24-C			
		48V	36V	75V	1.5kV	86%							0.55	3	2	14	77.2	51.8	TMP-5/5-12/1-D48-C			
5/±15V	0.8/±0.15A	9W	5V	4.7V	7V	1.5kV	74%						0.38	2	1	9.5	50.8	25.4	TWR-5/800-15/150-D5A-C	TWR8-11W		
	1/±0.2A	11W	12V	9V	18V	1.5kV	82%						0.38	2	1	9.5	50.8	25.4	TWR-5/1000-15/200-D12A-C			
			48V	36V	72V	1.5kV	84%							0.38	2	1	9.5	50.8	25.4		TWR-5/1000-15/200-D48A-C	
			24V	18V	36V	1.5kV	84%							0.38	2	1	9.5	50.8	25.4		TWR-5/1000-15/200-D24A-C	
	1/±0.25A	11W	48V	18V	72V	1.5kV	80%						0.45	2	2	11.4	50.8	50.8	TWR-5/1000-15/250-D48A-C	TWR12-15W		
	1.5/±0.25A	15W	48V	18V	72V	1.5kV	81%						0.45	2	2	11.4	50.8	50.8	TWR-5/1500-15/250-D48A-C			
	3/±0.5A	20W	24V	9V	36V	1.5kV	82%							0.45	2	2	11.4	50.8	50.8	TWR-5/3000-15/500-D12A-C	TWR 20W A-SERIES	
			48V	18V	75V	1.5kV	82%							0.45	2	2	11.4	50.8	50.8	TWR-5/3000-15/500-D48A-C		
3/±0.25A	20W	24V	18V	36V	1.5kV	86%							0.49	2	1	12.5	50.8	25.4	TWR-5/3-15/250-D24-C	TWR-22W		
		48V	36V	75V	1.5kV	87%							0.49	2	1	12.5	50.8	25.4	TWR-5/3-15/250-D48-C			
3/±0.25A	23W	12V	10V	18V	1.5kV	85%							0.49	2	1	12.5	50.8	25.4	TWR-5/3-15/250-D12-C			
5/±15V	25W	24V	10V	36V	1.5kV	85%							0.55	3	2	14	77.2	51.8	TMP-5/5-15/1-Q12-C	TMP25-40W		
		48V	18V	75V	1.5kV	85%							0.55	3.04	2.04	14	77.2	51.8	TMP-5/5-15/1-Q48-C			
	30W	24V	18V	36V	1.5kV	86%							0.55	3.04	2.04	14	77.2	51.8	TMP-5/5-15/1-D24-C			
		48V	36V	75V	1.5kV	85%							0.55	3.04	2.04	14	77.2	51.8	TMP-5/5-15/1-D48-C			

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information	
Rated Output Voltages	Rated Output Currents	Total Output Power	Nom.	Min.	Max.			Bricks		SIP	TH	DIP	SIP	Inches			mm			Part Number <i>Note: Root part numbers may be shown. Please refer to datasheets for available options.</i>	Datasheet Available at www.murata-ps.com	
								1/8	1/4					1/2	H	W	D	H	W			D
24/48/72V	42/21/14mA	3W	5V	4.5V	5.5V	1.0kV	85%						0.44	0.30	0.86	11.1	7.5	21.8	NMT0572SC	NMT		
			12V	10.8V	13.2V	1.0kV	85%							0.44	0.30	0.86	11.1	7.5	21.8		NMT1272SC	

Processor Support

Powering next generation 32-Bit and 64-Bit processors is becoming more demanding, requiring lower output voltages, higher currents, and higher di/dts.

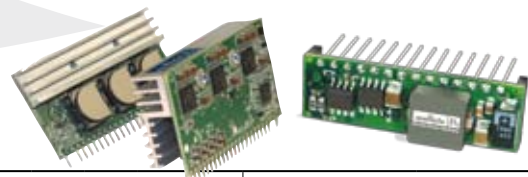
Our VRM products are designed to meet and exceed the performance demanded

by the next generation processors and are available in a variety of packages for an optimal fit in systems <1U to 2U with innovative open-frame designs that allow for better thermal management in today's system environments.



VRM Spec	Output Characteristics			Input Voltage			Efficiency	Package Style					Package Dimensions						Further Information	
	Thermal Design Current	Max. Output Current	Output Voltage Range (VDC)	Nom.	Min.	Max.		Card Edge	Thru Hole	Height			Inches			mm			Part Number	Datasheet Available at www.murata-ps.com
										<1U	1U	1.5U	2U	H	W	D	H	W		
Intel® 11.1	80A	70A	0.5-1.6	12	11.04	12.6	87%	•	•				0.78	3.66	0.75	19.81	92.96	19.05	VR111B080CA-C	VR111 Series (Fall 2008)
	150A	130A	0.5-1.6	12	11.04	12.6	87%	•		•			1.18	3.80	0.87	29.97	96.52	22.10	VR111B150CU-C	
								•			•		1.86	3.80	1.00	47.24	96.52	25.40	VR111B150CL-C	
								•				•		2.50	3.80	0.87	63.50	96.52	22.10	
Intel® 11.0	80A	70A	0.8375-1.6	12	11.04	12.6	88%	•	•				0.78	3.66	0.75	19.81	92.96	19.05	VR110B080CA-1C	VR110 Series
	150A	130A	0.8375-1.6	12	11.04	12.6	84%	•		•			1.18	3.80	0.87	29.97	96.52	12.07	VR110B080CU-1C	
								•			•		1.86	3.80	1.00	47.24	96.52	25.40	VR110B150CL-1C	
								•				•		2.50	3.80	0.87	63.50	96.52	22.10	
Intel® 10.1/10.2	150A	130A	0.8375-1.6	12	11.04	12.6	85%	•			•		1.18	3.80	0.87	29.97	96.52	22.10	VR102B150CU-3C	VR102 Series
								•			•		2.50	3.80	0.87	63.50	96.52	22.10	VR102B150CS-2C	
AMD® K8	80A	70A	0.80-1.55	12	11.2	13.2	85%	•			•		1.16	3.80	1.00	29.46	96.52	25.40	VRK81B080CU-1C	VRK81 Series
	100A	80A	0.80-1.55	12	11.2	13.2	85%	•			•		2.12	3.80	0.80	53.85	96.52	20.32	VRK81B0100CS-1C	

Memory Support



DDR Spec	Output Characteristics			Input Voltage			Efficiency	Package Style					Package Dimensions						Further Information	
	Max. Output Current	Output Voltage Range (VDC)	Nom.	Min.	Max.	Card Edge		SIP	Height			Inches			mm			Part Number	Datasheet Available at www.murata-ps.com	
									<1U	1U	1.5U	2U	H	W	D	H	W			D
DDR Termination	9A	0.7-1.45	3.3	3	5.5	83%	•	•					0.50	1.60	0.35	12.70	40.64	8.89	DDR-9-W3-C	DDR Series
							•	•					0.35	1.60	0.50	8.89	40.64	12.70	DDR-9-W3H-C	
DDR1, DDR2, DDR3	60A	0.6-3.5	12	10.2	13.2	88%	•	•					1.25	2.40	0.38	31.75	60.96	9.53	VCN60BADJTU-1C	VCN60/70 Series
	70A	0.6-3.5	12	10.2	13.2	87%	•	•					1.25	2.40	0.66	31.75	60.96	16.76	VCN70BADJTU-1C	

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