

Solar Panels - continued

Medium Power Modules - continued

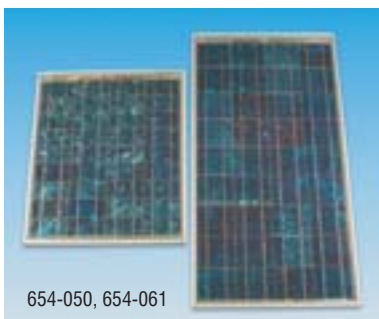
Mfrs. List No.	L	W	D	Nom. Volts	Amps @ pp	Volts @ pp
SX-5M	269	249	23	12	0.27	16.5
SX-10M	420	269	23	12	0.58	17.1
SX-20U	423	502	50	12	1.17	17.1
SX-30U	591	500	50	12	1.86	17.2
BP-350U	937	500	50	12	3.08	17.2

221698

Mfrs. List No.	Order Code	Price Each
SX-5M	654-024	9,337.00
SX-10M	654-036	10,950.00
SX-20U	654-048	17,741.00
SX-30U	654-050	28,795.00
BP-350U	654-061	30,281.00

Value Line Modules3

SOLAREX



654-050, 654-061

- VLX-32, 32 watt module
- VLX-53, 53 watt module
- Large junction box
- Can be configured to 6V or 12V
- Clear-anodised aluminium frame
- Tempered glass/EVA laminate construction

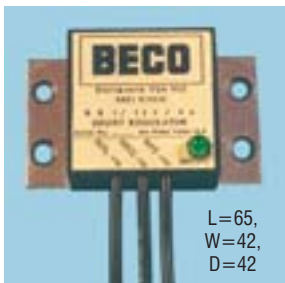
Mfrs. List No.	L	W	D	Nom. Volts	Amps @ pp	Volts @ pp
SX-30U	591	500	50	12	1.86	17.2
BP-350U	937	500	50	12	3.08	17.2

OPT334

Mfrs. List No.	Order Code	Price Each
SX-30U	654-050	28,795.00
BP-350U	654-061	30,281.00

Solar Shunt Regulator

Beco Solar



L=65, W=42, D=42

- 12 Volt, 6 amp solid state shunt regulator
- Temperature compensated
- Fully encapsulated
- LED status indication
- Blocking diode included

The BECO Solar Shunt Regulator is designed to limit the voltage to which a lead acid battery can be driven when on charge from a photovoltaic (solar) module or array. The unit is set to regulate at 14.6 volts and operation is indicated by an LED. Suitable for use with any 12 volt (nominal) module(s) up to a maximum of 6 amps.

206361

Mfrs. List No.	Order Code	Price Each
BR1/12/6	653-925	3,678.00

Laser Diode Modules

Self-Contained

IMATRONIC



Miniature: L=37, Dia=11, Lead L=200

Compact: L=49, Dia=16, Lead L=200



Connections
Red=Supply +ve, Black=Supply -ve

A range of self-contained continuous wave visible laser diode modules. Applications include alignment, bar code readers, robotic control, target designation, positioning and security detection.

- Choice of output wavelengths: 633nm and 670nm
- Output power options: Class 2 (1mW), Class 3a (3, 5mW)
- Choice of housings: 11mm or 16mm
- User adjustable focusing (tool supplied)
- Integral drive circuitry
- Output power stabilisation
- Reverse polarity protection
- LED emission indicator

Wavelengths: 633nm*, 670nm
 Beam size at aperture (mm): Miniature - 4 x 2, Compact - 5 dia. (Class 2) 5 x 2 (Class 3a)
 Focusing range (mm): Miniature - 35-∞, Compact - 150-∞ (Class 2) 20-∞ (Class 3a)
 *Approximately nine times brighter than comparable 670nm versions.

Operating voltage: 4V to 6V DC

Operating temperature: -10°C to +40°C Storage temperature: -20°C to +65°C
 Operational life: MTTF in excess of 10,000 hours at its operating temperature range

WARNING: These devices are laser diode modules and conform to BS (EN) 60825 emission criteria. Do not look directly into the laser beam. Eye protection should be worn as blink response is not sufficient to protect the human eye.
 <1mW visible - class II, 3mW & 5mW visible - class IIIa.

206264

Module Type	Order Code	1+	3+	+
Miniature, 0.9mW, 670nm	121-6290	7,128.00	6,562.00	--
Miniature, .9mW, 633nm	121-6294	12,138.00	8,758.00	--
Miniature, 3mW, 670nm	121-6291	7,901.00	--	--
Miniature, 5mW, 633nm	121-6313	18,134.00	15,186.00	--
Compact, 0.9W, 670nm	121-6292	7,484.00	5,223.00	--
Compact, 0.9mW, 633nm	121-6295	11,033.00	6,026.00	--
Compact, 3mW, 670nm	121-6293	12,269.00	--	--

OEM Laser Diode Modules



414-2809



414-2792



Connections
 Red=Supply +ve,
 Black=Supply -ve
 Pink=TTL modulation input

- Low Cost
- Miniature Design
- Automatic Power Control
- 3.0Vdc Operating
- Adjustable or Fixed Focus Options (650nm)
- Red or High visibility Green Options

A range of laser diode modules designed for OEM applications with the lowest cost, miniature size and beam focussing requirements.

These modules are ideal for a wide range of low power laser applications, such as general sighting, levelling and positioning.

The red laser modules are available with either a fixed or adjustable focus, the wavelength being in the red region at 650nm.

The green 532nm diode pumped solid state modules use a laser diode pumped Nd:YVO₄ crystal coupled with KTP as a frequency doubler to generate green light. These modules produce a high visibility beam which appears up to ten times brighter than a red laser for the same 1mW power output. Additional heat sinking may be required for continuous operation. A pulsed green laser module is available with modulation up to 1 kHz and a power output from 1.5 to 2.99mW.

Colour	Module size (mm)	Supply volts	Wave-length (nm)	Beam Dia. (mm)	Supply current (mA)	Output power max (mW)	Modulation	Max	Mfrs. List No.	
Red	10.5	17	Fixed	2.7	6	650	5.8	45	1	PLP6501FR
Red	10.5	17	Adj.	2.7	6	650	5.8	45	1	PLP6501AR
Green	12	56.5	Fixed	—	3	532	1	350	0.99	GMP532-1F3-C
Green	12	56.5	Fixed	—	3	532	1	350	2.99	1kHz GMP532-3F3-P

WARNING: These devices are laser diode modules and conform to BS (EN) 60825 emission criteria. Do not look directly into the laser beam. Eye protection should be worn as blink response is not sufficient to protect the human eye.

<1mW visible - class II, 3mW & 5mW visible - class IIIa.

241021

Description	Mfrs. List No.	Order Code	1+	3+	5+
1mW Laser, 650nm Fixed focus	PLP6501FR	120-9950	1,679.00	1,567.00	1,507.00
1mW Laser, 650nm Adj. focus	PLP6501AR	120-9951	1,679.00	1,567.00	1,507.00
1mW Laser, 532nm Fixed focus	GMP532-1F3-C	120-9949	24,720.00	24,078.00	23,175.00
2.99mW Laser, 532nm Fixed focus	GMP532-3F3-P	120-9953	24,720.00	24,078.00	23,175.00