

# BP solar PV Panels



## Mega Modules - Lite Modules - Voltage Controllers - Mounting Kits

Solarex are a leading developer and producer of photovoltaic modules, both in semi-crystalline and amorphous technologies. Solarex has established one of the widest product lines available worldwide and Marlec are Solarex's UK "Authorised Distributor" holding large stocks of most modules and accessories. We offer full technical support for system design, either stand-alone or in hybrid wind/solar systems and complete after sales service.



### Mega Modules

Mega modules are Solarex's range of framed, glass fronted panels available in a variety of output and physical sizes. They are suited for permanent and temporary installations.

- Constructed of 36 semi-crystalline silicon solar cells
- Tempered glass sub-strate is self cleaning, highly transmissive and impact resistant
- Anodised aluminium frame is corrosion resistant and compatible with Solarex mounting structures
- Easy to access and wire weatherproof terminal box
- Rugged and weatherproof construction the cells are laminated between sheets of ethylene vinyl acetate (EVA) and tempered glass with a durable backsheet
- Withstand repetitive cycling between -40 C and 90 C Withstand windloading exceeding 125mph
- Withstand impact of a one inch hail stone at 52mph
- Meets ISPRA and JPL Block V test criteria and is approved by Factory Mutual Re-

Typical applications are telecommunications, residential, rural development, sail boats, caravans and motor homes, traffic signals, cathodic protection, navigation and many other uses.

MODULE TYPE:	CURRENT RATING:	PEAK POWER:	PEAK VOLTAGE:	DIMENSIONS (MM)	WEIGHT (KG)
MSX60	60W	3.5A	17.1V	1110*500*50	7.2
MSX50	50W	2.92A	17.1V	940*500*50	6.3
MSX40	40W	2.34A	17.1V	770*500*50	5.4
MSX30	30W	1.75A	17.1V	600*500*50	3.9
MSX20	20W	1.17A	17.1V	430*500*50	3.0

All Solarex products are individually tested and labelled. A 20 year Performance Warranty, guaranteeing that the solar module will continue to deliver a minimum of 80% of its rated power for 20 years is given with all modules rated at 40w and above. Even the lower power Mega modules carry a 10 year performance warranty.

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## Lite Modules

Solarex's "Lite" modules are a lightweight yet rugged range of photovoltaic panels designed to be slimline so that they are simple to install on flat surfaces and are semi-flexible to allow for a gentle curvature of a coach roof as on caravans and boats.



- Semi-crystalline silicon solar cells
- Tough non-slip tedlar front cover Stainless steel sub-strate
- Moisture resistant metallization ensures electrical integrity in severe climates
- Supplied with 3m of cable from potted junction box
- Module is only 3mm thick, 10mm including junction box
- Supplied as 12v units, can be linked for 2

Typical applications are camping and caravanning, boating, mobile communications, low power telemetry and telecommunication uses, railroad signalling devices, etc.

MODULE TYPE:	CURRENT RATING:	PEAK POWER:	PEAK VOLTAGE:	DIMENSIONS (mm)	WEIGHT (KG)
MSX30L	30W	1.75A	17.1V	620*500*15	3.0
MSX20L	20W	1.17A	17.1V	450*500*15	2.1
MSX10L	10W	1.58A	17.1V	450*270*15	1.1
MSX5L	4.5W	1.27A	16.8V	270*270*15	0.7

Solarex Lite modules carry a one year product warranty and a 5 year performance warranty. Like the Mega series all modules carry an individual label of the product's test results.

## Voltage Controllers

A variety of solar charge controllers are available in 12v and 24v and the controller rating should be selected according to the peak power rating of the solar array. Marlec manufacture a range of controllers designed for combining wind and solar systems. See information on RWS type controllers under "Rutland Windchargers" section.

## Mounting Kits

A range of solar panel array mounting kits are available for ground and pole fixing. Contact Omni Instruments to discuss your requirements, we will be happy to advise you.

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