



# MBA

## Solar Cells

Uses include solar toys, solar challenge models, science kits, solar education kits etc

Most sizes in the EPSS and EPAS range can be ordered with Solder Pads, Screws, Alligator Clips, Banana Plugs or Connecting Wires attached.

### Solar Cells

Part Number	Volts generated in sunlight V DC	mA generated in sunlight mAh	Size	Description	Connection Type	Information	Information	Type
SB-SCPD	0.47 (Open Circuit)	1.80 (Short Circuit)	3.18 x 3.18mm	Small square clear-epoxy encapsulated.				
EPSS02-C	0.5V DC	250	70 x 25mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
EPSS02-S	0.5V DC	250	70 x 25mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS03-C	0.5V DC	500	60 x 60mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon

# Indicates item not stocked at time of printing - Please enquire for lead time

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MBA Size Listings are a guide to sizes only and must not be solely relied on for critical design information.

## Solar Cells

Part Number	Volts generated in sunlight V DC	mA generated in sunlight mAh	Size	Description	Connection Type	Information	Information	Type
EPSS03-S	0.5V DC	500	60 x 60mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS05-1-S	0.5V DC	840	85 x 85mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS05-1-C	0.5V DC	840	85 x 85mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
# EPSS03-1-S	0.5V DC	900	60 x 60mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS05-2-S	1.5V DC	400	106 x 70mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS05-2-C	1.5V DC	400	106 x 70mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
# EPSS01-4-C	1.5V DC	500	90 x 70mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
# EPSS01-4-S	1.5V DC	500	90 x 70mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS01-1-C	1.5V DC	500	120 x 62mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
EPSS01-1-S	1.5V DC	500	120 x 62mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS01-2-C	2.0V DC	300	120 x 62mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon

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Part Number	Volts generated in sunlight V DC	mA generated in sunlight mAh	Size	Description	Connection Type	Information	Information	Type
EPSS01-2-S	2.0V DC	300	120 x 62mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS01-S	2V DC	400	120 x 62mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS01-C	2V DC	400	120 x 62mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
EPSS07-S	2.5V DC	100	52 x 46mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS07-C	2.5V DC	100	52 x 46mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
EPAS01-1-S	3.0V DC	6	55 x 20mm	Epoxy Solar Module	Solder blocks for wire attachment		Indoor Applications	Amorphous
# EPSS08-S	3.0V DC	150	90 x 20mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
# EPSS08-C	3.0V DC	150	90 x 20mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
# EPSS01-5-C	3.6V DC	200	120 x 62mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
# EPSS01-5-S	3.6V DC	200	120 x 62mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS04-S	4.0V DC	350	130 x 90mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon

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## Solar Cells

Part Number	Volts generated in sunlight V DC	mA generated in sunlight mAh	Size	Description	Connection Type	Information	Information	Type
EPSS04-C	4.0V DC	350	130 x 90mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
# SB-SCC2433-B	4.5	18	24 x 33mm	Polycrystalline cell offering 4.5V (open circuit) and 18mA (short circuit) in a 24x33mm package.	What really makes this solar cell stand out is the circuit board on the back!	It lets you assemble the simple "Miller Solarengine" which lets you pulse-power devices.	-	
EPSS07-1-C	5.0V DC	60	62 x 45mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
EPSS07-1-S	5.0V DC	60	62 x 45mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS07-2-C	5.0V DC	100	88 x 45mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
EPSS07-2-S	5.0V DC	100	88 x 45mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPSS07-3-C	5.0V DC	130	110 x 56mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
EPSS07-3-S	5.0V DC	130	110 x 56mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon
EPAS01-2-S	5.2V DC	16	55 x 29mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Amorphous
# EPSS07-4-S	5.5V DC	300	89 x 58mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon

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## Solar Cells

Part Number	Volts generated in sunlight V DC	mA generated in sunlight mAh	Size	Description	Connection Type	Information	Information	Type
SB-SCC3766	6.7	30	37 x 66mm	Direct sunlight tests show just over 8V open-circuit and 44mA short-circuit	Very Robust - epoxy protects the 14 cells mounted on a PCB backplane.	Features a SOD123 footprint on the back	SOD123 is for user supplied parallel-wired zener diode for over-voltage protection.	
SB-SCC3733	7 (Open Circuit)	15 (Short Circuit)	37 x 33mm	Replacement solar cell for the Panasonic Sunceram series. It's a bit heavier, but it's also the same	No more broken glass, or touchy solder-pads	Mounted on sturdy fibreglass backing with color-coded polarity solder tabs.	Equal or better than their Panasonic counterparts, with marginally less performance in low-light.	
EPSS06-C	1.0V DC	500	70 x 60mm	Epoxy Solar Module	Connector Screws		Outdoor Applications	Multicrystalline Silicon
EPSS06-S	1.0V DC	500	70 x 60mm	Epoxy Solar Module	Solder blocks for wire attachment		Outdoor Applications	Multicrystalline Silicon

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