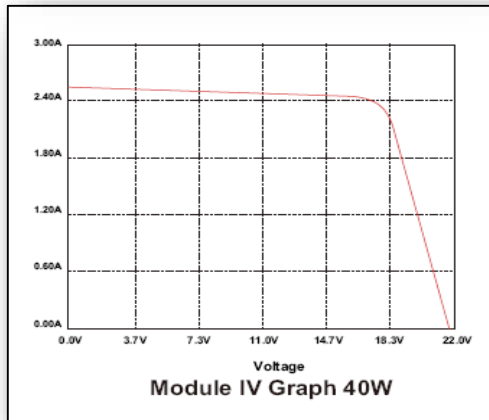


# Direct Bolt In Replacement - 12V Solar Panels - Jbox

Kyocera - Arco Solar - Siemens Solar - Shell Solar - BP Solar - Solarex



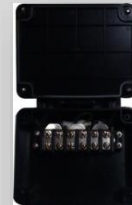
## Direct Replacements for OEM Jbox Modules

**Solar-X Manufactures:** Direct "Bolt In" equivalent modules that replace Discontinued OEM Solar Modules under the brand names Solar-X and Industrial Solar. The brand names emphasize our commitment to maintain a true industrial grade product.

**Solar-X is Committed to:** Manufacturing a classic Industrial Grade Solar Module. We use only grade A cells, large conduit ready Jbox and anodized aluminium frames 1.37" - 1.97" thick.

**In Contrast:** Module manufacturers today are reducing the integrity of their small solar modules. They accomplish this by using grade B or broken cells, using pigtails or a small Jbox and using thin frames to reduce cost.

**The Solar-X module:** Incorporates state of the art crystalline technology with a Silicon Nitride (SiN) coating that enhances cell efficiency. Encapsulation beneath high transmission tempered glass is accomplished using an advanced, UV resistant thermal setting plastic. The rear surface of the module is completely sealed from moisture and mechanical damage by a continuous high strength polymer sheet.



## APPLICATIONS:

- 12 Volt battery charging
- Emergency communications
- SCADA systems & monitoring
- Railway signal lighting
- Street lighting Systems
- Cathodic Protection
- Oil & Gas



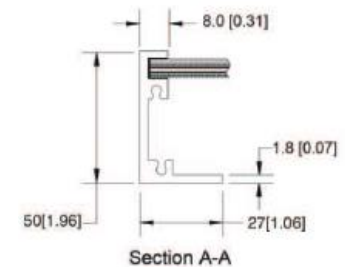
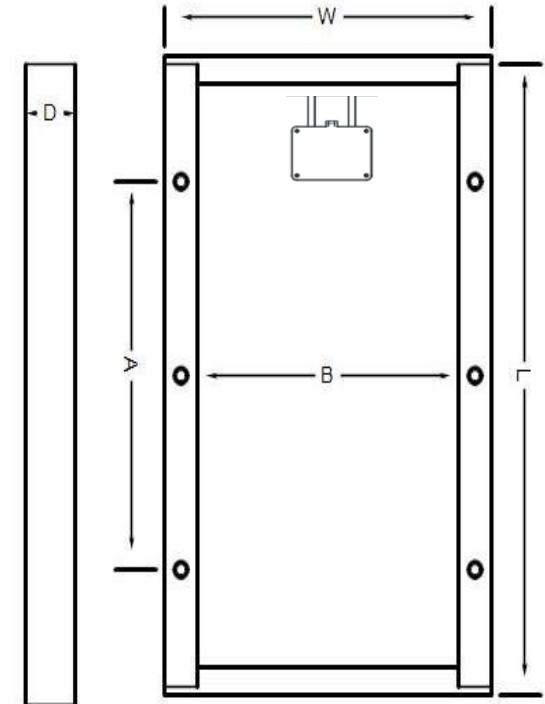


# Direct Bolt In Replacement - 12V Solar Panels - Jbox

Kyocera - Arco Solar - Siemens Solar - Shell Solar

Kyocera, Shell & Siemens Solar to Solar-X Cross Reference Table & Specifications

OEM Manufacturer Name	Siemens, Shell, Arco Solar		Kyocera Solar America			
OEM Manufacturer Part Number	SM55, SM50- H, M55, M75	SQ80,SQ85 SP75, SP70	KC40 KC40T	KC50 KC50T	KC65 KC65T	KC85 KC85T
Solar-X Part Number	MSX-SM55	MSX-SQ80	MSX-KC40	MSX-KC50	MSX-KC65	MSX-KC85
Rated Power at STC	55W	80W	40W	50W	65W	85W
Maximum Power Voltage(Vpm)	17.40	17.20	17.40	17.40	17.40	17.40
Maximum Power Current (Ipm)	3.16A	4.65	2.29	2.87	3.73	4.88
Open Circuit Voltage (Voc)	21.40V	21.70	21.70	21.70	21.70	21.70
Short Circuit Current (Isc)	3.40A	5.05	2.58	3.23	4.08	5.17
Length (Inches) (L)	50.90	47.20	20.70	25.20	29.60	39.60
Width (Inches) (W)	13.00	20.70	25.70	25.70	25.70	25.70
Depth (Inches) (D)	1.38	1.80	1.38	1.38	1.38	1.80
Hole Spacing (Inches) (A)	25.30	25.30	18.42	22.87	10.59	20.67
Hole Spacing (Inches) (B)	11.30	19.00	24.13	24.13	24.13	24.13
Weight (Lbs)	16.00	18.00	13.20	14.50	15.25	16.50
Temperature Coefficients	NOCT 47 °C	ISC + (.065%) / °C	VOC - (80mV) / °C	Power - (.55%) / °C		
Operating Temperature	- 40 °C to + 85 °C					
Nominal System Voltage	12 Vdc					
Maximum System Voltage	DC 600V					
Series Fuse Rating	10A					
Performance Tolerance	+ 10% / - 5%					



Specifications are subject to change without notice.

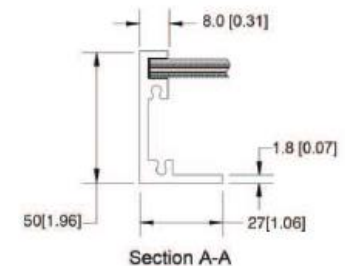
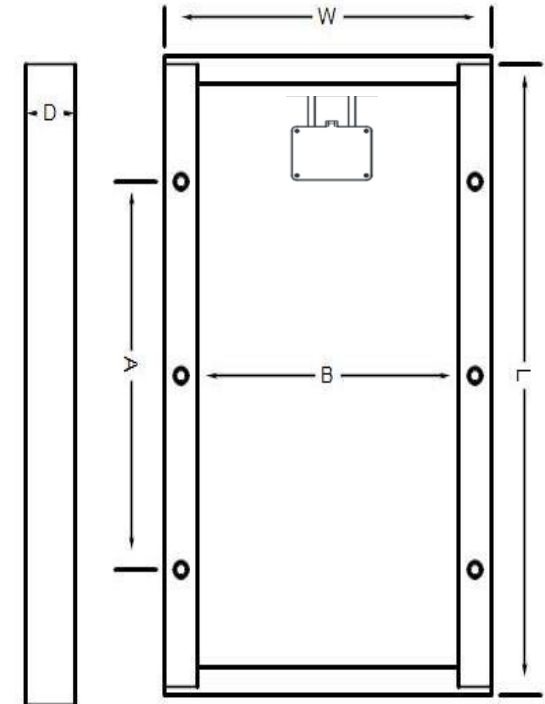


# Direct Bolt In Replacement - 12V Solar Panels - Jbox

BP Solar – Solarex

BP Solar and Solarex to Solar-X Cross Reference Table & Specifications

BP Solar Part Number Solarex Part Number	BPSX320J BPSX320U MSX -20	BPSX330J BPSX330U MSX -30	BPSX340J SX-40U	BPSX350J	BPSX365U BPSX365J MSX50/60/64	BPSX380J BPSX375J	
Solar-X Part Number	SX20	SX30	SX40	SX50	SX65	SX80	
Rated Power at STC	20W	30W	40W	50W	65W	80W	
Maximum Power Voltage(Vpm)	17.2	17.2	17.2	17.2	17.2	17.2	
Maximum Power Current (Ipm)	1.16	1.74	2.32	2.91	3.78	4.65	
Open Circuit Voltage (Voc)	21.6	21.6	21.6	21.6	21.6	21.6	
Short Circuit Current (Isc)	1.29	1.93	2.58	3.23	4.08	5.17	
Length (Inches) (L)	16.73	23.42	25.78	33.0	43.74	47.59	
Width (Inches) (W)	19.76	19.76	21.14	21.14	19.76	21.14	
Depth (Inches) (D)	1.97	1.97	1.97	1.97	1.97	1.97	
Hole Spacing (Inches) (A)	15.12	21.80	14.17	22.87	24.00	22.87	
Hole Spacing (Inches) (B)	18.38	18.38	20.00	20.00	18.38	20.00	
Weight (Lbs)	5.50	7.75	9.50	12.50	13.25	15.50	
Temperature Coefficients	NOCT 47 °C		ISC + (.065%) / °C		VOC - (80mV) / °C		Power - (.55%) / °C
Operating Temperature	- 40 °C to + 85 °C						
Nominal System Voltage	12 Vdc						
Maximum System Voltage	DC 600V						
Series Fuse Rating	10A						
Performance Tolerance	+ 10% / - 5%						



Specifications are subject to change without notice.

**SOLAR-X - UNIVERSAL ALUMINIUM MOUNTS (UAM)** size is easy to handle and specifically designed for single solar module applications. Modules can easily be mounted to the side of pole (with/U Bolt) or to a wall (with/Lag Bolt)The UAM's mounting structures incorporate slotted rails that fit most small solar modules on the market. The UAM's are manufactured of clear anodized (rails and legs) aluminum to withstand corrosion.

**FEATURES INCLUDE:**

- 120 mph wind load design
- PV module mounting hardware
- Stainless steel hardware
- 10-year limited warranty
- Adjustable tilt 15° to 60°
- Models mount 1 PV modules
- Ships UPS.

**APPLICATIONS INCLUDE:**

- 12 Volt battery charging
- Emergency communications
- SCADA systems & monitoring
- Small-scale irrigation pumping
- Aviation obstruction lighting
- Railway signal lighting
- Street lighting

**UNIVERSAL ALUMINIUM MOUNTS (UAM) – Selection Guide**

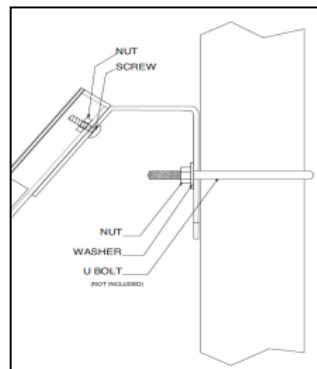
Solar-X UAM Model #	IS 5/10	IS 20/40	IS 50/80
Maximum Solar Module Wattage.	10W	40W	90W
Maximum Solar Module Width.	15 "	20"	20"
U Bolts - included. (Pole Mount)	Yes	No	No
Lag Bolts - included. (Wall Mount)	No	No	No
Maximum Solar Module Weight.	3.5 LBS	10 LBS	20 LBS

**Application Notes:**

1. The UAM's adjust to most solar module configurations. In Some instances the mount, solar module frame or both may have to be modified for compatibility. Check with your supplier for specific module compatibility.
2. Model IS 5/10 is NOT adjustable, fixed at 45 degrees.



Model: IS 5/10



Model: IS 20/40



Model: IS 50/80

