

**PRACTICAL.
CLEAN.
AUTONOMOUS.**

MEET SOLIS ENERGY'S
**SOLAR
POWER PLANT.**



No grid power? No problem. Solis Energy's Solar Power Plants (SPP) deliver reliable solar generated electricity - anytime and anywhere. Perfect for remote installations where trenching is too costly or impractical. Our SPPs are ideal for remote wireless networking and communications, security applications such as perimeter surveillance and access control, smart grid and metering infrastructure, telemetry equipment, and more.

SOLAR POWER PLANT



FEATURES

- Wide Operating Temperature (-40 to 60°C)
- Hydraulic-Magnetic Breakers
- Powder Coated Aluminum Enclosure
- Clean DC Power Output
- Online Battery Connection - Zero Transfer Time
- Suited for Multiple Battery Types
- Sophisticated Multi-Stage Charging



APPLICATIONS

- Remote Communications Equipment
- Perimeter Security and Surveillance
- Emergency Call Boxes and Mustering Stations
- PLCs and RTU Systems
- Wellhead Controls
- Obstruction Lighting
- Environmental Monitoring



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Rev 24.2

SPP



	Model Number	SPP12050-B U1G1	SPP12150-E 31G2	SPP24400-E 31G2	SPP24400-3 31G4	SPP24800-3 31G4	SPP48800-3 31G4	SPP48800-6 31G8
OVERVIEW	System Voltage (Handoff)	12 VDC Nominal			24 VDC Nominal		48 VDC Nominal	
	Type	PWM				MPPT	MPPT	
	Charging Algorithm	Multi Stage						
	Surge Protection	Transient						
	Total Weight (lb)	63.5	215.0	243.0	382.0	476.0	483.0	781.0
SOLAR ARRAY	Minimum Watts @ Max Power	50	150	400	400	800	800	800
	Minimum Volts @ Max Power	17	17	34	34	34	68	68
	Nominal Array Voltage	12	12	24	24	24	48	48
	Weight (lb)	29	44	72	72	129	129	129
CHARGING	Absorption Charge Voltage	14.1V	14.1V	28.2V	28.2V	28.0V	56.0V	56.0V
	Float Charge Voltage	13.7V	13.7V	27.4V	27.4V	27.4V	54.8V	54.8V
	Output Current	10A	20A	20A	20A	30.0A	30.0A	30.0A
PROTECTION	Input Protection	Hydraulic-Magnetic Circuit Breaker						
	Battery Protection	Hydraulic-Magnetic Circuit Breaker						
	Load Protection	Hydraulic-Magnetic Circuit Breaker						
	Low Voltage Disconnect	Yes						
	Environmental	Over Voltage / Over Temperature						
ENVIRONMENTAL	Working Temperature	-40°C - 60°C						
	Storage Temperature	-40°C - 85°C						
	Working Humidity	20 - 95% RH non-condensing						
ENCLOSURE	Dimensions (H x W x D)	18.2 X 11.7 X 8.2	27.875 X 16 X 15	27.875 X 16 X 15	27.875 X 16 X 15	31.25 x 30 x 18.875	31.25 x 30 x 18.875	49.00 x 32 x 19
	Weight, Empty (lb)	8	30	30	30	67	67	91
	Weight, with Controller (lb)	11	34	34	36	73	80	104
	Material	A5052-H32 Aluminum Alloy						
	Finish	Polyester Powder Coat						
	Fastener	Stainless Steel Draw Latch with Padlockable Hasp						
	Hinge	Door Length Stainless Steel Piano Hinge						
	Cable Ingress / Egress	1/2" NPT Polyamide Cord Grips						
	Environmental	NEMA 3R - Field Upgradable to NEMA 4X						
	Mounting	Pole / Wall / Truss Tower			Pole / Wall / Ground / Truss Tower			
Shelf	N/A	Optional	Optional	Yes	Yes	Yes	Yes	
BATTERY ARRAY	Array Total Energy Storage (Wh)	432	2592	2592	5184	5184	5184	10368
	Array Voltage (Nominal)	12VDC			24VDC		48VDC	
	Array Capacity @ C100 (Ah)	36	216	108	216	216	108	216
	Chemistry	Sealed Thixotropic Gel VRLA						
	Quantity	1	2	2	4	4	4	8
	Weight, Total (lb)	23.5	137	137	274	274	274	548
Weight, Each (lb)	23.5	68.5	68.5	68.5	68.5	68.5	68.5	

Note: The information contained herein is subject to change without notice.

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SPP



OVERVIEW	Model Number	SPP12150-E 31L2	SPP24400-E 31L2	SPP24400-3 31L4	SPP24800-3 31L4	SPP48800-3 31L4	SPP48800-6 31L8	
	System Voltage (Handoff)	12 VDC Nominal	24 VDC Nominal			48 VDC Nominal		
	Type	PWM			MPPT			
	Charging Algorithm	Multi Stage						
	Surge Protection	Transient						
	Total Weight (lb)	140.0	168.0	232.0	326.0	333.0	481.0	
SOLAR ARRAY	Minimum Watts @ Max Power	150	400	400	800	800	800	
	Minimum Volts @ Max Power	17	34	34	34	68	68	
	Nominal Array Voltage	12	24	24	24	48	48	
	Weight (lb)	44	72	72	129	129	129	
CHARGING	Absorption Charge Voltage	14.1V	28.2V	28.2V	28.0V	56.0V	56.0V	
	Float Charge Voltage	13.7V	27.4V	27.4V	27.4V	54.8V	54.8V	
	Output Current	20A	20A	20A	30.0A	30.0A	30.0A	
PROTECTION	Input Protection	Hydraulic-Magnetic Circuit Breaker						
	Battery Protection	Hydraulic-Magnetic Circuit Breaker						
	Load Protection	Hydraulic-Magnetic Circuit Breaker						
	Low Voltage Disconnect	Yes						
	Environmental	Over Voltage / Over Temperature						
ENVIRONMENTAL	Working Temperature	-40°C - 60°C						
	Storage Temperature	-40°C - 85°C						
	Working Humidity	20 - 95% RH non-condensing						
ENCLOSURE	Dimensions (H x W x D)	27.875 X 16 X 15	27.875 X 16 X 15	27.875 X 16 X 15	31.25 x 30 x 18.875	31.25 x 30 x 18.875	49.00 x 32 x 19	
	Weight, Empty (lb)	30	30	30	67	67	91	
	Weight, with Controller (lb)	34	34	36	73	80	104	
	Material	A5052-H32 Aluminum Alloy						
	Finish	Polyester Powder Coat						
	Fastener	Stainless Steel Draw Latch with Padlockable Hasp						
	Hinge	Door Length Stainless Steel Piano Hinge						
	Cable Ingress / Egress	1/2" NPT Polyamide Cord Grips						
	Environmental	NEMA 3R - Field Upgradable to NEMA 4X						
	Mounting	Pole / Wall / Truss Tower			Pole / Wall / Ground / Truss Tower			
	Shelf	Optional			Yes			
BATTERY ARRAY	Array Total Energy Storage (Wh)	2400	2400	4800	4800	4800	9600	
	Array Voltage (Nominal)	12VDC	24VDC			48VDC		
	Array Capacity @ C100 (Ah)	200	100	200	200	100	200	
	Chemistry	LiFePO ₄						
	Quantity	2	2	4	4	4	8	
	Weight, Total (lb)	62	62	124	124	124	248	
	Weight, Each (lb)	31.0	31.0	31.0	31.0	31.0	31.0	

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