

In-Ground AC>DC UPS (Uninterruptible Power Supply)

Solis Energy's In-Ground AC>DC UPS Series is an ideal solution to use where aesthetics is important. The In-Ground Series is designed to be installed in the ground. This system can be sized to for brownout / blackout protection as well as for continuous power to loads when power is not always available.

This is the ideal solution for UPS protection to cameras and wireless radios attached to decorative lights, overloaded or undersized utility poles to support additional equipment.



Designed to fit your application.

Decorative Light Fixtures	Gang Switched Light Poles
<p>Our In-Ground AC>DC UPS is easily and conveniently buried underground, providing reliable backup power without visibly bulky or unsightly enclosures.</p>	<p>Our In-Ground AC>DC UPS provides 100% back-up power during the day when lights are off and fully recharges during the night when power returns in the evening. It also allows easy deployment near utility poles that are in too poor a condition or overloaded with equipment, weight, or wind load capacity to allow another device to be placed on it.</p>

Our unique advantage is our flexibility to fit your specific requirements.

- **Truly universal to fit any input.** Auto ranging for use with 110 or 220 AC power inputs – both US and European standards. Available space in electronics module to add step down transformer to support AC power inputs greater than 265VAC.
- **Choose the battery size based on your back-up power need.** Whether you need a secondary power source for extended power outages or short-term, emergency back-up power, we have the right size battery for you. Multiple battery packs can be added to extend the backup capacity.
- **Flexible power based on your requirements.** Provides 150 watts total system power output that can vary based on the recharge time that you have available.
- **Sustainable over a wide range of temperatures.** Ideal for outdoor use in areas with extreme temperature variations (-4 - 140°F, -20 - 60°C). Mounting in the ground not only hides the enclosure but provides additional insulation against cold and heat.
- **Rugged and reliable NEMA 6P IP67 enclosure.** Thermoset composite, corrosion resistant construction with NEMA 6P and IP67 submersion rating.
- **Versatile to fit your needs.** Available in 12 and 24 Volt models: **DC-UPS 12120** and **DC-UPS 24120**.

Solis Energy's AC>DC UPS 12120 & 24120 Series Specifications:

PARAMETER	DC-UPS 12V-120W			DC-UPS 24V-120W			UNIT
	Minimum	Typical	Maximum	Minimum	Typical	Maximum	
INPUT							
AC Input Voltage	85	—	265	85	—	265	Volts RMS
Input Frequency	47	—	66	47	—	66	Hertz
Power Factor Correction	0.95	—	—	0.95	—	—	n/a
DC Input Voltage	110	—	370	110	—	370	Volts
OUTPUT – Battery & Load							
Battery & Load Voltage at 25°C	13.7	13.8	13.9	27.4	27.6	27.8	Volts
Battery & Load Voltage	12.9	—	14.9	25.8	—	29.8	Volts
Over 0 – 60°C (temp. comp. range)	(60°C)	—	(0°C)	(60°C)	—	(0°C)	(ambient temp.)
Output Voltage Temperature Compensation (0 – 60°C only)	—	-0.025	—	—	-0.05	—	Volts / °C
Battery Charging Current (no load)	—	—	10.5	—	—	5.25	Amps
Load Current (120 Watts)	—	—	10	—	—	5	Amps
Output Switching Noise	—	—	100	—	—	100	mV p-p
GENERAL							
Operating Temperature	-20	—	60	-20	—	60	°C
Efficiency	75	—	—	78	—	—	%
EMC – Emissions							
Radiated Noise: 30mHz – 1GHz per FCC Class B							
Conducted Noise: 150kHz – 30mHz per FCC Class B							
ALARM CONTACTS							
DC Current Rating at 30 VDC max	—	—	1	—	—	1	Amps
AC Current Rating at 120 VAC max	—	—	0.3	—	—	0.3	Amps
BATTERY							
Max per Compartment	—	—	74	—	—	30	Amp Hours
PHYSICAL							
Weight without Battery	—	—	10	—	—	1	Lbs
Dimension	12" x 24" x 8" Overall; 12" x 12" x 8" per Compartment						Inches

Battery Sizing Guide for use as Secondary Power Source:

Power Load in Watts	5.00	10.00	15.00	20.00	24.00	5.00	10.00	15.00	20.00	24.00
Volts	12	12	12	12	12	24	24	24	24	24
Amps	0.42	0.83	1.25	1.67	2.00	0.21	0.42	0.63	0.83	1.00
24hr amps	10.00	20.00	30.00	40.00	48.00	5.00	10.00	15.00	20.00	24.00
40hr amps	16.67	33.33	50.00	66.67	80.00	8.33	16.67	25.00	33.33	40.00
Min. Battery Amp Hours	20.83	41.67	62.50	83.33	100.00	10.42*	20.83*	31.25*	41.67*	50.00*

* Per battery; 2 batteries required

Maximum Power Load for use as Secondary Power Source Ability to Recharge:

Latitude	50	45	40	35	30	25	20	15	10	5	0
Day Hours Worst Case	16.50	15.60	15.00	14.50	14.00	13.60	13.30	13.00	12.75	12.50	12.25
Night Hours Worst Case	7.50	8.40	9.00	9.50	10.00	10.40	10.70	11.00	11.25	11.50	11.75
Max Load in Watts	47	53	56	59	63	65	67	69	70	72	73



Smart solutions for continuous outdoor power.

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