

## AC>DC Continuous Power Bridge™ (CPB)

Solis Energy's AC>DC CPB is an ideal solution to bridge the daytime power gap caused by an intermittent power source, such as a parking lot light. Our CPB ensures continuous, day-to-day power to your outdoor applications during those times when your existing power source is unavailable. Perfect for gang-switched parking lot lights or street lights that do not have power during the day. You can reliably power your equipment via nominal 12 / 24 / 48 vDC or regulated 0-60 vDC, Power over Ethernet (POE), or inverter supplied AC. Applications include: security systems, video cameras and communications devices.

At Solis Energy, we are committed to developing innovative, reliable products that provide flexible solutions to allow you to take control of your outdoor power requirements.



### Designed to fit your application.

When you need continuous power but are limited to an intermittent power source, our AC>DC CPB is specifically designed for applications requiring constant, day-to-day power in locations where the existing AC power source is only available during certain times each day. For example, you may have a Wireless Radio or Surveillance camera mounted to a lamp post where the AC power is only available to run your application from dusk to dawn, then it shuts off during the day. Our AC>DC CPB fully recharges at night when the lights are on, then provides 100% power to your application during the day when the AC power is off.

### 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.
- Sized to fit your needs. Flexible design options allow you to choose the best system – large or small based on your load requirements, location and timeframe – that fits your specific needs.
- 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. High load configuration with battery storage of 80 amp hours for 12 volt systems and 160 amp hours for 24 volt systems when required for routine, daily operation to bridge your current power source.
- Sustainable over a wide range of temperatures. Rugged enclosure is designed for outdoor use in areas with extreme temperature variations (-4 - 140°F, -20 - 60°C). Our AC>DC CPB can be easily mounted in an existing enclosure or we can provide a durable, outdoor-ready enclosure.
- Versatile to fit your needs. Available in nominal 12 / 24 / 48 vDC or regulated 0-60 vDC models.
- Rugged and reliable enclosures. NEMA 4x UV protected fiberglass enclosure, NEMA 3X powder-coated heavy gauge aluminum enclosure or NEMA 3x stainless steel enclosure available based on your size requirements. Designed for pole, wall or pedestal mounting. In-ground installation options are also available when faced with overcrowded light poles, extreme temperatures or for aesthetic reasons with decorative light poles.
- Easy, error-free installation. Choose from our standard MC Connectors or we can install the connector specific to your application to eliminate in-field wiring.

## Solis Energy's AC>DC CPB 12070 & 24070 Series Specifications:

PARAMETER	DC-CPB 12070			DC-CPB 24070			UNIT
	Minimum	Typical	Maximum	Minimum	Typical	Maximum	
<b>INPUT</b>							
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
<b>OUTPUT – Battery &amp; Load</b>							
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	—	—	10	—	—	5	Amps
Output Switching Noise	—	—	100	—	—	100	mV p-p
<b>GENERAL</b>							
Operating Temperature	-20	—	60	-20	—	60	°C
Efficiency	75	—	—	78	—	—	%
<b>EMC – Emissions</b>							
Radiated Noise	30mHz – 1GHz per FCC Class B						
Conducted Noise	150kHz – 30mHz per FCC Class B						
<b>ALARM CONTACTS</b>							
DC Current Rating at 30 vDC max	—	—	1	—	—	1	Amps
AC Current Rating at 120 vAC max	—	—	0.3	—	—	0.3	Amps

The above specifications list only one of our multiple standard product configurations. Contact us to find out how we can manufacture a specific solution to fit your custom application.



*Smart solutions for continuous outdoor power.*