

## DC-UPS 100W and 200W Capacities Uninterrupted Power Supply for Critical DC Loads

Solarcraft's DC-UPS is both a battery charger and a primary power supply, designed to be combined with storage batteries. This combination produces clean, uninterrupted power to critical DC loads. In the event of utility power interruption, the Solarcraft DC-UPS supplies back-up power for hours, days, or even weeks depending on the load and battery capacity.

Conventional power supplies are poor battery chargers and battery chargers are poor power supplies. The Solarcraft DC-UPS solves these problems, and has many well-integrated and unique features. The Solarcraft DC-UPS is available in three sizes: 100W for 12V and 24V; and 200W for 24V applications.



### Applications

- PLC's and RTU's
- Radio Base Stations and Repeaters
- SCADA Systems
- Tower and Obstruction Lighting
- Remote Telemetry
- Video Cameras
- Gate Openers
- Security Systems
- Roadway Caution Signs
- LED Traffic Controls
- DC Controls
- Communication Back-up Power

### Features and Benefits

- Low Voltage Disconnect (LVD) protects batteries from excessive discharge resulting in permanent battery damage
- True universal input – 47-66 Hz, 85-265 VAC (automatic, no jumpers); 110-370 VDC input
- Power-Factor-Corrected Input – prevents harmonic degradation of the AC power line feeding the system
- Constant-current Limited Output – avoids shutdown problems
- Temperature Compensated Output – provides proper voltage for battery charging over wide temperature range
- Low Noise Output – allows use with sensitive electronics used in control, monitoring, and communications
- Glitch-less Switch-over – provides continuous load power
- Wide Operating Temperature – makes it suitable for indoor or outdoor use (-20 to 60°C, -4 to 140°F)
- Isolated Form C Alarm Contacts – provides remote signaling, or may be used to shed loads when AC power fails
- Status Indicators – provide system status at a glance
- Reverse Battery Protection – with a replaceable fuse protects the DC-UPS and your loads
- Rugged Enclosure / Quality Construction – for trouble-free service in harsh industrial or remote applications

Solarcraft enclosures are proudly **MADE IN THE USA.**

## Specifications

	Parameter	5414-12V-100W			5414-24V-100W 5414-24V-200W			Unit	
		Min.	Typical	Max.	Min.	Typical	Max.		
Input	AC Input Voltage	85	-	265	85	-	265	Volts RMS	
	Input Frequency	47	-	66	47	-	66	Hertz	
	Power Factor	0.95	-	-	0.95	-	-	n/a	
	DC Input Voltage	110	-	370	110	-	370	Volts	
Output = Battery + Load	Battery and Load Voltage @ 25°C	13.5	13.8	13.9	27.0	27.6	27.8	Volts	
	Battery and Load Voltage over 0 - 60°C (Temp. Compensation Range)	12.9 (60°C)	-	14.6 (0°C)	25.8 (60°C)	-	29.2 (0°C)	Volts	
	Output Voltage Temperature Compensation (0-60°C only)	-	-0.025	-	-	-0.05	-	Volts/°C	
	Maximum Available Battery Charging Current (no load)	100W	-	10.5	-	-	5.25	-	Amps
		200W	-	-	-	-	10.5	-	Amps
	Load Current (average value)	100W	-	-	7.5	-	-	3.75	Amps
		200W	-	-	-	-	-	7.5	Amps
	Peak Load Current	20.0			20.0			Amps	
Output Ripple max. p-p	-	-	100	-	-	100	mV p-p		
General	Operating Temperature	-20	-	60	-20	-	60	°C	
	Efficiency (full load)	75	-	-	78	-	-	%	
Alarm Contacts	DC Current Rating at 30 VDC Max	-	-	1.0	-	-	1.0	Amps	
	AC Current Rating at 120 VAC Max	-	-	0.3	-	-	0.3	Amps	
LVD	Load Disconnects		11.9			23.8		Volts	
	Load Reconnects		12.5			25.0		Volts	
EMC Emissions	Radiated Noise: 30 MHz - 1 GHz per FCC Class B								
	Conducted Noise: 150 kHz - 30 MHz per FCC Class B								

