RP-SP112C series

Solar & PoE Battery Charger

RP-SP112C Solar & PoE Battery Charger equips dual input sources to charge batteries, the first is via solar panels and secondary PoE source in order to provide redundancy and insure 100%



uptime for critical applications. The solar panel input takes priority, when receive sunshine, the power usage would be minimized.

RP-SP112C has a built in PoE inserter with DC to DC converter that delivers optional PoE power 24V, 48V, 56V. The device supports full electronic protections for short circuit, reverse current, overvoltage, over charge and over discharge.

RP-SP112C helps users to monitor the current status easily and efficiently by its advanced LED indication. The 5 LEDs Indicate: current is being supplied by a POE source or solar panel, battery is charging, load output is turned on and a warning if battery is connected with reverse polarity.

Solar and Battery Connections are via terminal block for wire size up to 12AWG. PoE Input and Output is via RJ45 shielded connectors. There is a secondary output connector on the back side with terminals for connecting other electronics to the controller using up to 12AWG wire. This secondary output is equal to the battery voltage.

Features

- Dual Input, from solar panel and/or PoE (Solar First) to charge 12V battery, and another two outputs: PoE output on front and/or terminal block on rear
- Built-in DC/DC converter, with various passive PoE output, 24V, 48V, 56V available.
- Active PoE Output support 802.3at handshake (RP-SP112C-56DB, RP-SP112C-56DA)
- DIN Rail Mountable
- Support Gigabit Ethernet

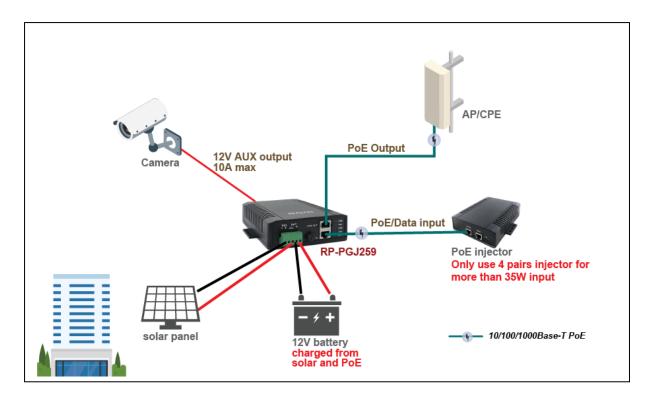
Application

- Remote Power Systems; Surveillance, Sensors
- Wireless Station; AP/Client/Repeaters
- UPS Systems; Lighting, Fences, Gates

Specifications

	IEEE 802.3 10Base-T Ethernet						
Standard	IEEE 802.3u 100Base-TX Fast Ethernet						
	IEEE 802.3ab 1000Base-T Gigabit Ethernet						
	IEEE 802.3af PoE						
		_					
	• IEEE 802.3at						
	• 1 x 10/100/1000Mbps RJ-45 port PoE/Data Intput						
Interface	• 1 x 10/100/1000Mbps RJ-45 port PoE Output						
	Fuse: for output over current protection, limiting the battery output current <= 10A						
	SOL/BAT Terminal block: for Solar Panel & Battery						
	LOA Terminal block: for wire size up to 12AWG						
Input Source type Input Voltage	Solar Panel						
	5.5						
	Solar Panel: 18V~55Vmax.						
	POE: 36V~57V (only use 4 pairs injector for more than 35W input.)						
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	Model	SP112C-	SP112C-	SP112C-	SP112C-	SP112C-	
Output	Wodel	24B	48A	48B	56DA	56DB	
	Output 1 12V/10A						
	(Terminal)		(as Bat. Volt.)				
	Output 2	24V/1.25A	48V/0.625A	48V/0.625A	56V/0.625A	56V/0.625A	
	(PoE Pin	(45+/78-)	(12-/36+)	(45+/78-)	(12-/36+)	(45+/78-)	
	Assignment)	(regulated)	(regulated)	(regulated)	(regulated)	(regulated)	
Battery Charge	 Solar Panel: o 	•	•	anel, 10A ma	X		
Туре	PoE: fixed current, 2.0A max						
Battery Type	12V AGM Battery						
	Battery Polarity Reverse Protection						
	Battery Over Charge Protection						
	Battery Over Discharge Protection						
	Solar Panel Polarity Reverse Protection						
Protection	Solar Panel Over Charge Protection						
	Output Short Circuit Protection						
	Battery Output Current Limit						
	Load Output Voltage Limit						
POE Charge	• Floot - 12 /\/	± 0 3\/ ⊑~·	ualizo – 14 9	N/ ± 0 2N/			
Voltage	• Float = 13.4V	± U.ZV EQU	ıalı∠ U = 14.∠	.v ± ∪.∠ V			
SOLAR Charge	01		0.017				
Voltage	Charge Voltage = 14.4 V ± 0.2V						
	POE: PoE por	wer innut in	dicator				
LED Indications	POE: PoE power input indicatorSOL: Solar power input indicator						
	·						
	CHA: Charging indicator CA: Leading indicator						
	LOA: Loading indicator						
	REV: Battery polarity reverse indicator						
Environment	Operation Temperature: -40 ~ +50°C						
	Storage Temperature: -40 ~ +85°C						
	Operation Hui						
Cooling	•	Free air cooling					
Dimension	118 x 150 x 40 mm (WxHxD), DIN rail mountable						
Difficilision	1 - 110 × 100 × 40	5 111111 (VVXI	ואווען, טוואומ	ii iiiouiitable			

Application



Ordering information

RP-SP112C-24B	Solar & PoE Battery Charger with 24V passive PoE output (Mid-Span mode B)
RP-SP112C-48A	Solar & PoE Battery Charger with 48V passive PoE output (Mid-Span mode A)
RP-SP112C-48B	Solar & PoE Battery Charger with 48V passive PoE output (Mid-Span mode B)
RP-SP112C-56DA	Solar & PoE Battery Charger with 56V 802.3at PoE output (Mid-Span mode A)
RP-SP112C-56DB	Solar & PoE Battery Charger with 56V 802.3at PoE output (Mid-Span mode B)