#### **RP-SP012C series**

### Solar & PoE Battery Charger

RP-SP012C Solar & PoE Battery Charger equips dual input sources to charge batteries, the first is via PoE source and secondary solar panels 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-SP012C has a built in PoE inserter with DC to DC converter that delivers optional PoE power 12V, 18V, 24V or 48V. The device supports full electronic protections for short circuit, reverse current, overvoltage, over charge and over discharge.

RP-SP012C 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: solar panel or PoE to charge 12V battery and dual outputs: PoE output on front or terminal block on rear
- Built-in DC/DC converter, with various passive PoE output, 12V, 18V, 24V, 48V available
- PoE input power 30W Min. for only charge, 80W Min. for full load
- Active PoE Output support 802.3af handshake (SP012C-48D)
- DIN Rail Mountable

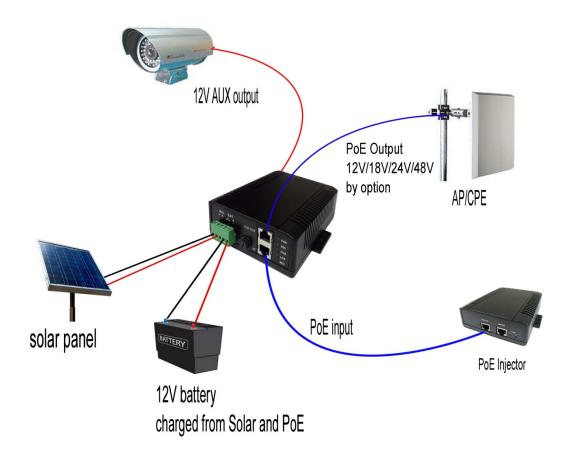
## **Application**

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

# **Specifications**

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Input Source type	Solar Panel     DoE						
	• PoE						
Input Voltage	Solar Panel: 18V~36Vmaxe  POF: 18V 57V 30W Min. For Only Charge, 80W Min. For Full Load						
	POE: 18V~57V, 30W Min. For Only Charge, 80W Min. For Full Load						
OUTPUT	Mo	odel SP012C-1	2 SP012C-18	SP012C-24	SP012C-48	SP012C-48D	
	Output 1						
	(Terminal)						
	Outp	out 2	40)//4.074	0.47.7/4.05.4	40) //0 005 4	40) //0.05.4	
	(RJ4	12V/1.0A	18V/1.67A	24V/1.25A	48V/0.625A	48V/0.35A	
Battery Charge	Solar Panel: charge current depends on the wattage of the solar panel						
Туре	POE: fixed current, 2.6A max						
Battery Type	12V Lead Acid 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						
	Output Over Voltage Protection						
	POE Output Short Circuit Protection						
	Externally fused with a standard replaceable fuse						
	Operation Temperature: -20 ~ +60°C						
Environment	Storage Temperature: -40 ~ +85°C						
	Operation Humidity: 5% ~ 90%						
Cooling	Free air cooling						
Dimention	• L150 x W118 x H40mm						
PoE Pinout		RJ-45 Input	(Data & Power)	RJ-45 (	Output (Data &	Power)	
	Pin	Symbol	Description	Symbol	Descri	•	
	1	RX+	Data Receive	RX+		Receive	
	2	RX-	Data Receive	RX-		Receive	
	3	TX+	Data Transmit	TX+		ransmit	
	4	(-Vdc)_return +	Feeding power(+)	(-Vdc)_retu		ng power(+)	
	5	(-Vdc)_return +	Feeding power(+)	(-Vdc)_retu		ng power(+)	
	6	TX-	Data Transmit	TX-		ransmit	
	7	-Vdc	Feeding power(-)	-Vdc		ng power(-)	
	8	-Vdc	Feeding power(-)	-Vdc	Feedir	ng power(-)	

## **Application**



# **Ordering information**

RP-SP012C-12	Solar & PoE Battery Charger with 12V Passive PoE output
RP-SP012C-18	Solar & PoE Battery Charger with 18V Passive PoE output
RP-SP012C-24	Solar & PoE Battery Charger with 24V Passive PoE output
RP-SP012C-48	Solar & PoE Battery Charger with 48V Passive PoE output
RP-SP012C-48D	Solar & PoE Battery Charger with 48V 802.3af PoE output