

TP-SCPOE

DATA SHEET

PoE /Solar Charge Controllers

Features

- Dual Input Charges 12V or 24V Batteries from Solar Panel and / or Passive PoE
- Built in DC to DC converter with various Passive PoE output voltages available: 12V,18V,24V,48V
- Compact and high temperature operation
- Low self consumption < 0.5W

Applications

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



TP-SCPOE Charge Controller

Description

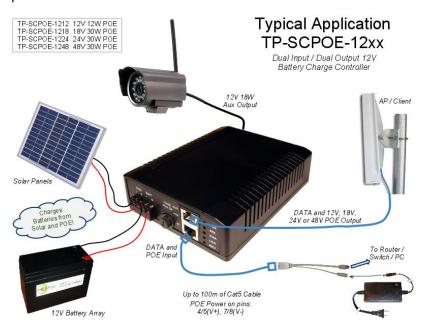
Tycon Solar® unique PoE/Solar charge controllers have dual inputs to charge batteries from a PoE source and also a secondary source like solar panels in order to provide redundancy and insure 100% uptime for critical applications. The solar panel input takes priority so that when the sun is shining the grid power usage is minimized. They have a built in PoE inserter with DC to DC converter that delivers 12V, 18V, 24V or 48V at the PoE port. They have full electronic protections for short circuit, reverse current, overvoltage, overcharge and over discharge.

They have five LED indicators to give a quick visual status if current is being supplied by a PoE source or solar panel, if battery is charging, If load output is turned on and a warning if battery is connected with reverse polarity. Solar and Battery Connections are via 5 screw terminals for wire size up to 10AWG. PoE Input and Output is via 2 RJ45 shielded connectors. There is a secondary output connector on the back with 5 screw terminals for connecting other electronics to the controller using up to 10AWG wire. This secondary output is equal to the battery voltage. The controllers are externally fused with a standard replaceable fuse.



There are two separate 12V output connections Gnd (or V-) and +12V (or V+): Gnd-1 and +12V-1 Gnd-2 and +12V-2

FG = Frame Ground – Do not connect this to the GND 1 or 2 terminals. Frame Ground may be left unconnected or connected to earth ground.



Specifications

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	TP-SCPOE-	TP-SCPOE-	TP-SCPOE-	TP-SCPOE-	TP-SCPOE-2424	
	1212	1218	1224	1248		
Solar Input Voltage	15V - 36V @ 10A max				24V - 36V @ 10A max	
POE Input Voltage		36V - 57V @ 1.3A max				
Battery Voltage		24V				
POE Output	11-15V @ 1A	18V @ 1.67A	24V @ 1.25A	48V @ .625A	24V @ 1.0A	
Secondary Output		20V to 25V @ 1.5A max				
Charge Voltage		28.6 +/-0.5V				
Maintenance Voltage		27.3 +/- 0.5V				
Over Discharge		20.0 +/-0.3V				
Voltage		22.3 +/-0.3V				
Load-On Consumption	< 0.5W					
Load-Off Consumption	1.7mA Typ 0.02W					
Max Wire Size	12 AWG					
Operating Temp	-30°C to 60°C (-22°F to 140°F)					
Dimensions	159 x 118 x 40mm (6.3 x 4.6 x 1.6")					
Weight	312 g (11 oz)					
Warranty	3 Years					

PoE Pinout

RJ-45 Input (Data & Power)			RJ-45 Output (Data & Power)		
Pin	Symbol	Description	Symbol	Description	
1	RX+	Data Receive(+)	RX+	Data Receive(+)	
2	RX-	Data Receive(-)	RX-	Data Receive(-)	
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)	
4	+Vdc in	DC Power to battery charge circuit	+Vdc out	DC power(+) to device	
5	+Vdc in	DC Power to battery charge circuit	+Vdc out	DC power(+) to device	
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)	
7	-Vdc in	DC Power to battery charge circuit	-Vdc out	DC power(-) to device	
8	-Vdc in	DC Power to battery charge circuit	-Vdc out	DC power(-) to device	

System Ordering:

TP-SCPOE-1212
TP-SCPOE-1218
TP-SCPOE-1224
TP-SCPOE-1224
TP-SCPOE-1224
TP-SCPOE-1248
12V in 12V out PoE/Solar Charge Controller
12V in 24V out PoE/Solar Charge Controller
12V in 48V out PoE/Solar Charge Controller

TP-SCPOE-2424 24V in 24V out PoE/Solar Charge Controller for 24V battery systems

For further information contact:

Tyconsystems.com



