



TP-BCxx-120

DATA SHEET

120W Battery Charge Controller

Features

- 120W Total Power. 12V, 24V and 48V models.
- Small Form Factor, Low Cost
- Over-Voltage, Over-Current, Over-Temp, Over-Load, Short-Circuit Protections
- Led indicator: Red=Charging, Green=Battery Full
- Wide temperature operation
- CE, UL and FCC Certifications



Applications

- Wireless Base Stations, Cellular Base Stations
- Surveillance Systems
- Battery Backup Systems

Description

The TP-BCxx-120 battery chargers provide up to 120W of total charging power. The battery charger is compatible with GEL/AGM type sealed lead acid batteries.

The charger has various protections for short-circuit, over-load, over-voltage, over-current and over-temp. It operates over a wide temperature range.

There is an LED which indicates charging (Red) or battery full (Green). The unit comes with a removeable AC cord with a North American Plug. The units are auto-ranging so they can work from 100VAC to 240VAC.



Specifications

	TP-BC12-120	TP-BC24-120	TP-BC48-120
Total Power Available (for Load and Battery charging)	120W	120W	120W
Nominal Battery Voltage	12VDC	24VDC	48VDC
Battery Charge Max Current	8.3A	4.35A	2.15A
Battery Charger Voltage	14.4V	28.8V	57.6V
Load Regulation	5%		
Line Regulation	3%		
Efficiency	85% Minimum		
Output Connector	2 Wire ; 914mm (36") long cable		
EMC Standards	FCC Class B , NE55022 Class B		
Safety Standards	UL60950-1, CSA 22.2, TUV EN60950		
AC Power Input (+-10%)	120VAC / 240VAC , 50/60Hz		
AC Input Current	2.5A Max		
HiPot Test	3000VAC		
Insulation Resistance	50 MOhm, 500VDC		
Operating Temperature	-30 to +55C (22 to +131°F)		
Operating Humidity (RH)	Up to 90% (non condensing)		
Storage Temperature	-40 to +85°C (-40 to +185°F)		
Storage Humidity	Up to 90% (non-condensing)		
MTBF (Mean Time Between Failure)	>50,000 hrs		
Dimensions (LxWxH)	172 x 72.5 x 34.5mm (6.8 x 2.9 x 1.4")		
Weight	439g (15.5oz)		
Warranty	3 Years		

System Ordering:

- TP-BC12-120** 120W Battery Charger, 14.4V 8.3A, with US Power Cord*
TP-BC24-120 120W Battery Charger, 28.8V 4.35A, with US Power Cord*
TP-BC48-120 120W Battery Charger, 57.6V 2.15A, with US Power Cord*

*Add an "E" suffix for Euro power cord



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