TECHNICAL DATASHEET

48V BATTERY CHARGER

FSP500-BC48V8A5

SPECIFICATIONS

MODEL	FSP500-BC48V8A5
OUTPUT	
Output Voltage (Typ.)(1)	50.4 V
Continuous Output Current (Max.)	8.5 A
Max. Power	500 W
LED Indicator	Charging : RED Floating charging/Stop charging : GREEN
INPUT	
AC inlet	IEC320-C14
Voltage Range	90 ~ 264 Vac
Frequency Range	47~63Hz
Power Factor(Typ.)	PF>0.95/115VAC, PF>0.9/230VAC at full load
Efficiency(Typ.)	92%
Leakage Current(max.)	0.35mA / 254VAC
PROTECTION	
Overload	105% rated output power
	Protection type: Constant current limiting recovers automatically after fault condition is removed
Short Circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed
Over Voltage	Protection type: Shut down o/p voltage, AC reset to recover
Over Temperature	85℃ surface temperature active control
	Protection type: Reduce the charging current
SAFETY & EMC	
Safety Standards	UL62368, IEC62368
Withstand Volatge	I/P-O/P : 3KVAC
Isolation Resistance	I/P-O/P : 100M Ohms / 500VDC /25℃/70%RH
EMC Emission	Compliance to EN55032, FCC Class B, EN61000-3-2,3
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11
ENVIRONMENTAL	
Operating Temperature	0~40℃
Operating Humidity	20%~90% RH non-condensing
Storage Temp.,Humidity	-40~+85%, 10~95% RH
Vibration	0.01g²/Hz at 5Hz sloping to 0.2g²/Hz at 20Hz, and maintaining 0.02g²/Hz from 20Hz to 500Hz. PSD=3.13gRMS 15min./axis, force direction X,Y,Z
MECHANICAL	
Outline	Fully enclosed plastic case
Dimensions	186 x 76 x 38.5 mm
Weight(Typ.)	800 g
Cooling	Free Air Convection

NOTES:
1. Modification for charger specification may be required for different battery specification. Please contact battery vendoe and FSP for details.
2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.

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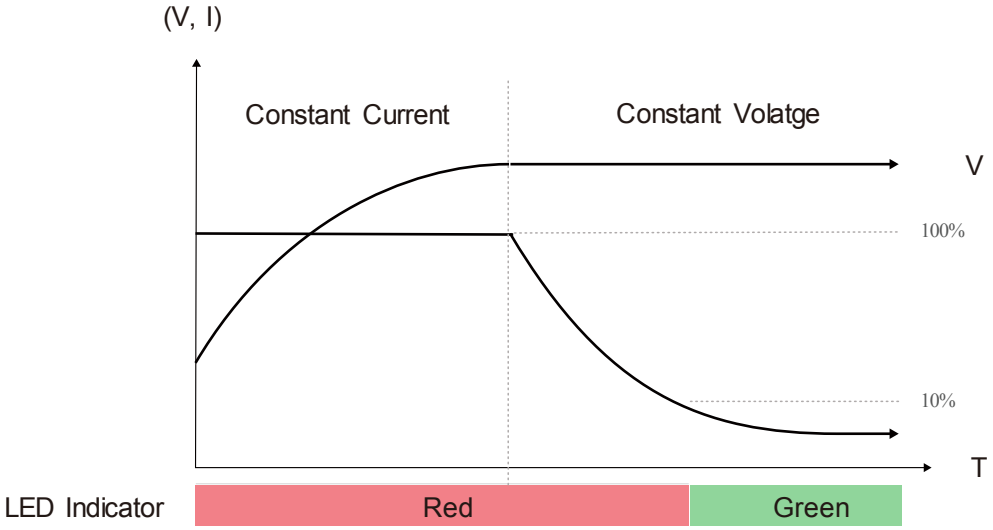
CHARGING CURVE



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