DC/DC Charger and Buck-Boost Converter 12V (Model : BBINT50A)

Key Features

- 12V output 50A (temp de-rated)
- 2-stage or 3-stage DC-DC charger, plus DC power supply mode
- Programmable via DIP switches or GUI software (free to download)
- Built-in battery rescue (pre-charging) function
- Compatible with Lead Acid, LiFePO4, Gel and AGM batteries
- Voltage / temperature compensation with battery temp senso (Optional Accessory)
- High efficiency and high reliability
- Withstand 2G vibration test
- Input/output Polarity Reversed protection by fuse
- Input over & under Voltage Protection
- Output over voltage / short circuit protection
- Internal over temperature protection
- Built-in Buck-Boost Converter (12V to 12V)
- Low temp cut-off & heater control for LifePo4 (optional temp sensor required Part No: APP-TEMP)

Specification Model BBINT50A

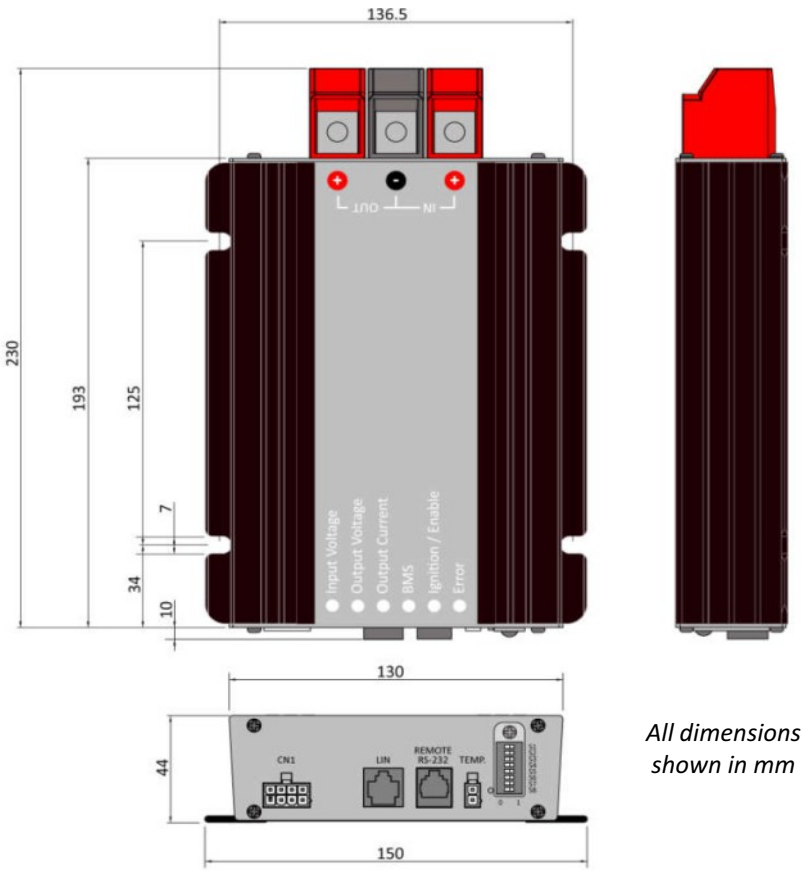
OUTPUT	Rated Power	750W
	Absorption Voltage DIP S1	0 : 14.4V ±1% 1 : 14.7V ±1%
	Float Voltage DIP S2	0 : 13.5V ±1% 1 : 13.8V ±1%
	Recharge Voltage DIP S3	0 : 12V ±1% 1 : 12.8V ±1%
	Charge Current DIP S4	0 : 100% 1 : De-Rating 50%
	Charging Control DIP S6 & S5	00 : Charger 1 : bulk->absorption->float->recharge 01 : Charger 2 : bulk->absorption->OFF->recharge 10 : Power Supply 1 : Constant Voltage by DIP S2 11 : Power Supply 2 : Constant Voltage by DIP S3
	Level DIP S7	N/A
	Battery Type	Lead Acid/LiFePO4/Gel/AGM/Program(DIP S8)
	Fused Internally	35A x 3 (Internal protection for the unit)
INPUT	Voltage Range	10V ~ 17V ±1%
	Efficiency (Max.)	92%
	Parasitic Curent (Ignition OFF)	< 5mA
	Type	Battery / Alternator / DC Source
	Fused Intenally	35A x 3 (Internal protection for the unit)

Specification Model BBINT50A

MODEL		BBINT50A
Environment	Working Temperature	12V :-20 ~ +60℃ (De-rating by case temperature)
	Storage Temperature	-40 ~ +85℃
	Relative Humidity	95% , non condensing
	Vibration	IEC68-2-6
Safety & EMC	Safety Standards	EN62368
	EMC Standards	Meets CE
	E-mark	E11 / 10R06/00*11580*00
Protection	Output Battery Reverse	Polarity reversed protection by fuse
	Output Battery Under Voltage	<10V Rescue charge
	Output Battery Over Voltage	>17V Shutdown
	Output Battery Over Temperature	>52℃ +-5℃ Shutdown by battery temperature sensor
	Output Short Circuit	3 seconds continuous output <1 , after shutdown
	Input Reverse	Polarity reversed protection by fuse
	Input Under Voltage	<10V Shutdown
	Input Over Voltage	>17V Shutdown
	Charger Over Temperature	Alarm by case temperature 60℃ De-rating by case temperature 65℃ Shutdown by case temperature 70℃
Others	Dimension(WxDxH)	130mm x 193mm x 44mm
	Weight (KG)	1.3KG

For full installation instructions see user manual

Specification Model BBINT50A

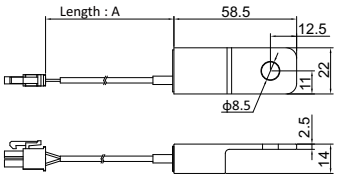


All dimensions shown in mm

Optional Temp Sensor

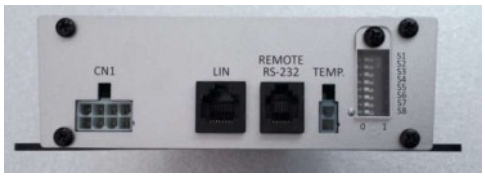
Part No:**APP-TEMP** (4600mm)

7650mm and 15300mm available to special order only



Length (max)	
A	4600mm

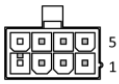
unit:mm



CN1:

1	Ignition (Active HIGH)
2	BMS+ (Active HIGH)
3	BMS- (Active LOW)
4	Voltage Sense + (0-32V)
5	Relay Common
6	Relay Normally Open
7	Reserved
8	Reserved

CN1



Temp:

1	Temp.
2	GND

TEMP.

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