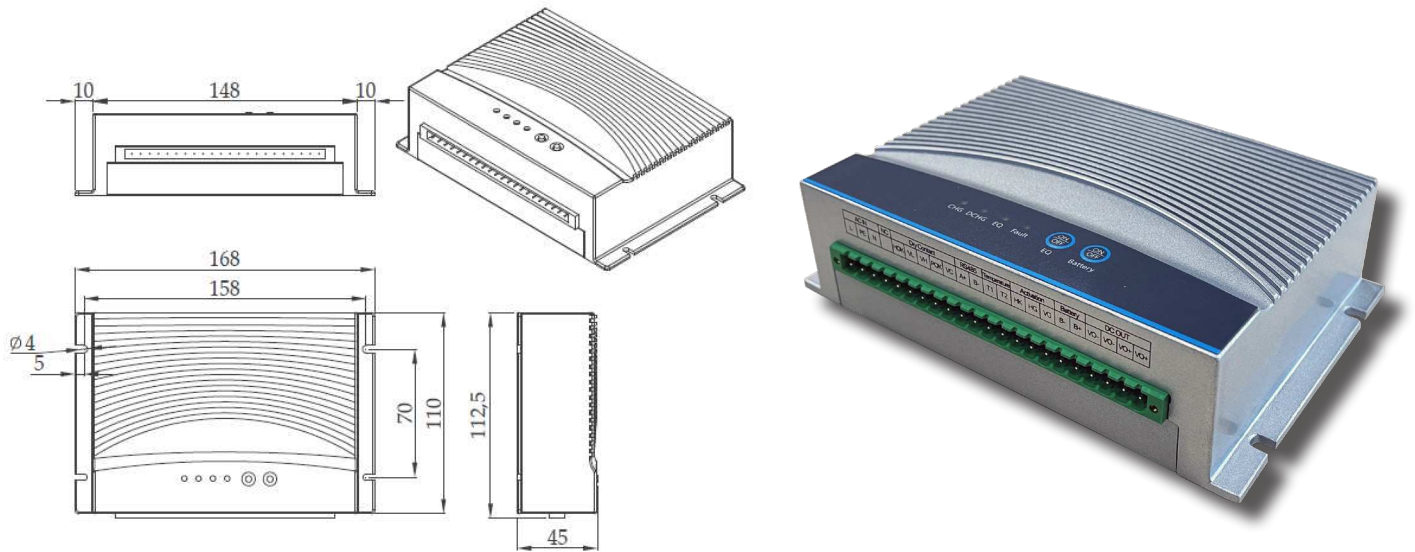


BBU100 Series



Introduction

The BBU100 series is a DC UPS integrating multiple functions into one unit, including a smart battery charger, battery monitor and the load management. The built-in professional adaptive charging algorithm with automatic temperature charging makes it suitable for composing a power backup system for various indoor and outdoor electronic equipment.

Features

- Power Factor Correction
- 165-265VAC, 50/60Hz AC input
- Temperature compensated battery charging control
- Operating temperature -40° to +70°C
- Low power consumption
- Self cooling design
- IP60 rated enclosure
- System data monitoring by RS485 communication for real time power supply data including alarm data, battery data including battery voltage and discharge current, remaining battery capacity and history records
- Protection includes over voltage, over temperature, over current and short circuit.

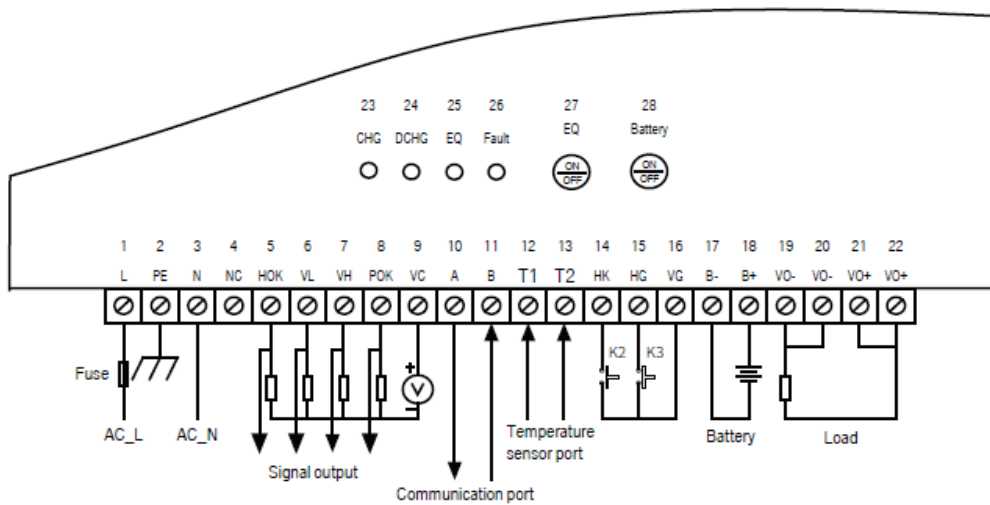
Electrical Specification

Model	BBU100-24	BBU100-48
DC Output Voltage	28.8V	57.6V
Output Current Nominal (Peak)	3.5A (20A)	2.0A (10A)
AC Input Voltage	165-265VAC 50/60Hz	
Charging Curve	3 stage smart charging	
Temperature Compensation	automatic temperature compensation	
Absorption Voltage	28.8V	57.6V
Charging Current	1.5A	1A
Equalization	automatic/manual	
Efficiency	90%	
Ripple & Noise	≤500mV pk-pk	
Voltage Precision	≤2%	
Cooling	fanless convection cooling	
Operating Temperature	-40°C to +70°C (full load to +60°C, derate to 60% at 70°C)	
Communication	RS485 for real time power supply date including alarm data, battery data including battery voltage and discharge current, remaining battery capacity and history records	
Dry Contacts	AC power fail, battery low voltage, unit fault & battery equalization	
Battery Low Voltage Protection	22V DC	44V DC
Battery EQ Voltage Protection	23V DC	46V DC
Output Short Circuit Protection	output shutdown with automatic recovery when short cct removed	
Battery Connection Reverse Polarity	no output	
Charger Over Temperature	derate output	
Battery Over Temperature	stop charging	
Safety	EN60335-1, EN60335-2-29	
EMC	EN55014-1, EN55014-2, EN61000-3-2, EN61000-3-3	
Insulation Resistance	≥50MΩ	
Dielectric Strength	2.5KV/1min/5mA	
Case Material	Aluminium	
Dimension (mm)	168 x 110 x 45mm	
IP Protection	IP60	
Mounting	wall mounting	

Battery Backed AC-DC Power Supplies



Connection & Operation Details



Terminal Number	Label	Description
1	L	AC LIVE
2	E	EARTH
3	N	AC NEUTRAL
4	NC	NO CONNECTION
5	HOK	DRY CONTACTS
6	VL	DRY CONTACTS
7	VH	DRY CONTACTS
8	POK	DRY CONTACTS
9	VC	DRY CONTACTS
10	A	RS485 PORT
11	B	RS485 PORT
12	T1	TEMP SENSOR
13	T2	TEMP SENSOR
14	HK	BATTERY EQUALIZATION INTERFACE
15	HG	BATTERY EQUALIZATION INTERFACE
16	VG	BATTERY EQUALIZATION INTERFACE
17	B-	BATTERY NEGATIVE
18	B+	BATTERY POSITIVE
19	VO-	DC OUTPUT
20	VO-	DC OUTPUT
21	VO+	DC OUTPUT
22	VO+	DC OUTPUT

Number	Label	Colour	Colour	Description
23	Charge	Green	On	Fully charged or ac power supply
			Flashing	Charging
24	Discharge	Green	On	Discharged
25	Equilization	Yellow	On	Equalization
26	Fault	Red	On	Fault
			Flashing	Battery Low, Reverse Polarity, Over Temperature
27	Equalization		Press Button >1 second	Start/End Equalization