

Betta POS Power Pack



1 The Betta POS battery power pack is specifically developed to keep the Point of Sale devices non-stop operational during on-grid power cuts and included is 2 x LED lights to illuminate the working area.

The Betta POS power pack will allow retailers to remain trading with their Point of Sale devices whenever load shedding or unplanned on-grid power cuts takes place.

Included with the Betta POS power pack is 1 x LED reading lamp and 1 x LED extension light to illuminate the trading area.

A typical standard Point of Sale device will non-stop operates during grid power failures for up to 24 hours.

The Betta POS power pack is based on a PLUG & PLAY installation model by simply fit the fuse at the back of the power pack.



The Betta POS power pack recharge via its own built-in AC charger.



It can also recharge the battery using solar PV panels via the already built-in Betta MPPT solar charger.

The LEAD CRYSTAL battery has got an expected life of 10 years.

The 150W inverter got developed to withstand high temperatures without using a fan to cool down, meaning that it is extremely power efficient.

Item	Betta MPPT solar charge controller
Operating voltage	12 volt DC
Operating environment	-20° C to - 60° C
Incorporated Value System	Energy efficiency, ease of installation, low maintenance and its ability to operate in high and low temperature environments, while protecting the system and equipment
Wattage maximum	160 watt 12 volt solar panel
Protections	<ol style="list-style-type: none"> 1. Over Charge protection 2. Over discharge protection and low voltage reconnect voltage 3. Thermal protection of battery 4. Overload protection 5. The unit can withstand 100 °C operational temperature without damaging itself. When the unit's temperature reaches 60° C, the unit shuts all operational functions down, and monitors the situation. When the temperature drops, full functionality resumes, with no loss of data or settings 6. Reverse polarity
Battery status indicator	LED status indicates when the unit is charging, and what the battery status is
MPPT	The unit has MPPT (Max power peak tracking) functionality, and has an energy conversion efficiency of up to 96.9%
Item	Betta 150 watt true sine inverter
Operating voltage	12 volt DC inverted to 220 AC
Operating environment	-20° C to + 65° C, can withstand high temperatures without fan to cool down power electronics
Output power	150W continuous 450W surge
Input voltage	11VDC to 15VDC
Flexible AC plug interfaces	Yes, plugs to be specified on order (international connector type if not for use in RSA)
220 AC wave	Pure sine wave
Overload protection	Yes
Auto recovery from overload or short circuit	Yes, when cause is removed
Item	Built-in AC Charger for lead crystal battery
Input voltage:	180 to 265 VAC 50Hz
Output voltage fast charge:	13.8VDC +/-0.1V
Charge indicator:	Charge LED Amber during fast charge : Green for trickle charge
Output current:	6 or 12Amp continuous output (model dependant)
Battery reverse voltage protection:	YES
Output short circuit protection:	YES
Operating temperature:	-10°C to +60°C
Battery temperature protection & battery temperature charge	YES



compensation	
Item	Reading Lamp & extension cord Light 12 volt LED reading lamp
LED Bulb	1.3 watt, 12 volt, 1300 lumen output, resulting in 200 lux at working level
Operating voltage	DC(12V)
Luminary efficiency	>90%
Effective beam angle	130 deg.
flexible	Flexible light head
Colour temperature	4000 - 5000K
Light colour	Pure White
Operating environment	-20° C to - 65° C
IP level	IP55
Expected life	50,000 hours
Fitting type for bulb	E27
Extension cord Light meters	6 meters
	Plug & Play connection to power pack
Item	Lead Crystal, deep cycle, maintenance free battery
Voltage	12V
Amp Hour	1 x 100Ah
Operating environment	-20 C to - 65 C
Expected battery life	7-10 years
Discharge features	100% DOD without damaging the battery. Expected cycles at 100% DOD = 400, and at 33% DOD = 2600
Shelf life	Up to 2 years without significant self-discharge
	Sealed type; no maintenance
Item (additional – to be purchased separately by client)	150w solar PV panel

