

Contact Charging

NPB-1200-12 & NPB-1200-24

ATOMBOTIX



- Ultra wide voltage automatic voltage sensing charging
- Built in CANBus communication interface
- Adjustable charging current (adjusted by panel VR to 50-100%)
- Four preset charging curves can be fine tuned and adjustable 2-stage or 3-stage charging through the DIP Switch panel
- Automatic temperature reduction charging
- Obtained UL/EN62368-1 and IEC/EN62368-1/-2-29 dual safety certification

Model	NPB-1200-12	NPB-1200-24
Electrical Parameters		
Rated Output Voltage	14.4 V	28.8 V
Output Voltage Range	10.5 – 15.2 V	21 – 30.4 V
Rated Output Current	6.8 A	4 A
Output Power	103.4 W	121.6 W
Floating Voltage	13.8 V	27.6 V
Input Voltage Range	50% – 100%	
Rated Input Current	1.5A / 115VAC	0.8A / 230VAC
Frequency Range	90 – 264VAC 127 – 370VDC	
Power Factor	PF>0.98/115VAC, PF>0.92/230VAC@12V, PF>0.93/230VAC@24/48V	
Adjustable Current Range	20 – 90 AH	15 – 50 AH
Recommended Battery Capacity	<1mA	
Battery Leakage Current	47 – 63 Hz	
Surge Current	Cold start 55A / 230VAC	
Leakage Current	<0.75mA / 240VAC	
Essential Parameters		
Typ.XLR	86.50%	89%
Typ.AD1	86.50%	89%
Typ.TB	87%	89.50%
Short Circuit	Protection mode: Restore after reboot	
Overvoltage	16 – 20 V	32 – 40 V
	Protection mode: turn off and latch the output voltage, restore after restart	
Reverse Polarity	Disconnect through internal fuse	
Over Temperature	Hiccup mode automatically recovers after temperature drops	
Vibration Resistance	10 – 500Hz, 2G 10 minutes/cycle, X, Y, Z axes each 60 minutes	

Security Certification	CB IEC62368-1, IEC60335-1/2-29, Dekra BS EN/EN62368-1, BS EN/EN60335-1/2-29, UL62368-1, AS/NZS60335-1/2-29, J62368-1(2020) (except for 48XLR & TB type), EAC TP TC 004
Environmental Parameters	
Working Temperature	-30 - +70 °C
Storage Temperature	-40 - +85 °C
Working Humidity	20 - 95% RH without condensation
Temperature Coefficient	±0.05%/°C (0 - 45°C)

