



BATTERIES
INCLUDED



-25° TO +70°



ENCLOSURE



The NetWave® NWKBB100 DC-Battery Power Solution provides consistent power for your devices in locations where power is on a timer or they have frequent blackouts or brownouts. The NWKBB100 supports AC input ranging from 110 to 277 VAC, and can also support 347 VAC and 480 VAC with an optional Multi Tap Power Transformer.

The intelligent controller distributes power to the load and batteries when AC power is available and instantly switches over to DC output only when AC power is lost.

The kit includes valve-regulated lead-acid batteries, outdoor enclosure, mounting bracket and Smart DC-Battery Power Controller. The aluminum outdoor enclosure has two 180° door hinges and a pad lockable latch for security. The enclosure has built in mounting brackets that support pole and wall mounting.

FEATURES

- › Power supply, battery charger, battery care module and battery backup module in one controller
- › Three battery charging modes
 - Boost, Trickle and Recovery Charge
- › Absorption Glass Matt (AGM) Batteries included
- › Adjustable charging current
- › Battery diagnostic and fault identification LED built in
- › Several output protection features such as short circuit, deep battery discharge etc.
- › Weatherproof IP65 rated enclosure
- › Operating Temperature -25 to +70° C

APPLICATIONS

- › Ideal for PoE Camera connectivity at light poles when power is only provided at night when a used with a PoE Switch
- › Emergency DC-Battery Power Backup for critical edge devices
- › Simple to deploy DC-Battery can be used indoors to backup Access Control, Automatic Revolving Doors, Fire Alarms, Emergency Lighting and many other applications

SPECIFICATIONS

Power		Load Output	
Nominal Input Voltage	115 / 230 ~ 277 VAC	Output Voltage (at I_n)	44 ~ 57.6 VDC
Voltage range	90-135 / 180-305 VAC	Nominal current I_{load}	$1.1 \times I_n \text{ A} \pm 5\%$
Inrush Current	$\leq 42 \text{ A} \leq 5 \text{ msec}$ ($V_n - I_n$ nom. Load)	Continuous current (w/out battery) $I_{load} = I_n$	10 A
Frequency	47 ~ 63 Hz	Continuous current (w/ battery) $I_{load} = I_n + I_{batt}$	20 A
Input Current	3.3 ~ 2.2 A (115 ~ 230 VAC)	Max. Current Output load (main) I_{load} (4sec.)	30 A max.
Internal fuse	4 A (factory replaceable)	Max. Current Output Load (backup) I_{load} (4 sec.)	20 A max.
External Fuse	16A (recommended)	Push Button Start	From battery without main
Output		Protection Alarm against total discharge	38-40 VDC battery
Output Voltage (V_n) / Nominal Current (I_n)	48 VDC / 5 A	Threshold alarm for battery almost flat	40-42 VDC battery
Output Current I_n	5 A	Backup Power	
Efficiency (at 50% of rated current)	$\geq 83\%$	Battery Voltage	48 VDC
Turn-On delay after applying input voltage	1.5 sec. (max)	(4 × 12 VDC AGM Batteries in Series)	
Start up with Strong Load (capacitive load)	Yes, Unlimited	Battery Capacity	24Ah × 4
Dissipation power load max	48 W	Mechanical	
Battery Output		Enclosure	Powder Coated Steel
Boost charge (25 °C) (at I_n)	57.6 VDC	Enclosure Size	16 × 16 × 10 in (40.64 × 40.64 × 25.4 cm)
Max. time Bust Charge	15 h	Shipping Weight	125 lb / 56.7 kg
Min. time Bust Charge	1 min.	Environmental	
Trickle charge (25 °C) (at I_n)	56 VDC	MTBF	>100,000 hours
Recovery Charge	2 ~ 24 VDC	Operating Temp	-40° C to +70° C
Charging current max I_{batt}	5 A ± 5%	Storage Temp	-40° C to +85° C
Charging current limiting I_{adj}	20 ÷ 100 % / I_{batt}	<i>In a continuing effort to improve and advance technology, product specifications are subject to change without notice.</i>	
Reverse battery protection	Yes		
Sulfated battery check	Yes by Jumper	Low Power Consumption	
Detection of element in short circuit	Yes		
Quiescent Current	$\leq 5 \text{ mA}$		
Charging Curve automatic:	I_{U00} 3 stage		

ORDERING INFORMATION

Part Number	Description
NWKBB100	Individual DC-Battery Backup system with Smart Controller, Enclosure, Batteries and Mounting Kit
Included Accessories	Mounting Hardware Kit (For Pole Mounting Only), 4 × 24Ah 12V batteries, Smart Controller, Internal Cabling and Enclosure
Options	User selection of Industrially Hardened NetWave® Wireless Ethernet Units NWCB2D25A - 2 Pole Circuit Breaker for DC Battery Connection NWCB3D20A - 3 Pole Circuit Breaker for AC Input Connection [3] Add suffix 'NB' to the part number you order if you wish to exclude battery from the kit

TYPICAL APPLICATION

