



NWKBB100







BATTERIES

TERIES -25° TO +70°



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 higher voltages using a Step Down 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.
- > 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

Frequency

## **SPECIFICATIONS**

#### **Power**

Nominal Input Voltage 115 / 230 ~ 277 VAC Voltage range 90-135 / 180-305 VAC **Inrush Current** ≤42 A ≤ 5 msec (V - I nom. Load)

47 - 63 Hz

3.3 ~ 2.2 A (115 - 230 VAC) Input Current Internal fuse 4 A (factory replaceable) **External Fuse** 16A (recommended)

### **Output**

Output Voltage (V<sub>p</sub>) / Nominal Current (I<sub>p</sub>) 48 VDC / 5 A Output Current I 5 A Efficiency (at 50% of rated current) ≥ 83% Turn-On delay after applying input voltage 1.5 sec. (max) Start up with Strong Load (capacitive load) Yes, Unlimited Dissipation power load max

#### **Battery Output**

Boost charge (25 °C) (at I\_) 57.6 VDC Max. time Bust Charge 15 h Min. time Bust Charge 1 min. 56 VDC Trickle charge (25 °C) (at I<sub>n</sub>) Recovery Charge 2 ~ 24 VDC Charging current max I hatt  $5 A \pm 5\%$ Charging current limiting I adj 20 ÷ 100 % / I<sub>batt</sub>

Reverse battery protection Yes

Sulfated battery check Yes by Jumper Detection of element in short circuit Yes **Quiescent Current**  $\leq$  5 mA  $I_{U_0U_0}$  3 stage Charging Curve automatic:

**Load Output** 

Output Voltage (at In) 44 ~ 57.6 VDC Nominal current  $I_{load}$  $1.1 \times I_{0} A \pm 5\%$ Continuous current (w/out battery)  $I_{load} = I_{n}$ Continuous current (w/ battery)  $I_{load} = I_n + I_{batt}$  20 A Max. Current Output load (main) I load (4sec.) 30 A max. Max. Current Output Load (backup) I<sub>load</sub> (4 sec.) 20 A max.

**Push Button Start** From battery without main Protection Alarm against total discharge 38-40 VDC battery Threshold alarm for battery almost flat 40-42 VDC battery

**Backup Power** 

**Battery Voltage 48 VDC** 

(4 × 12 VDC AGM Batteries in Series)

 $24Ah \times 4$ **Battery Capacity** 

**Continuous Power Reserve Time** 

15W Load 40 Hours Backup Time 30W Load 18 Hours Backup Time 60W Load 8 Hours Backup Time

Mechanical

Enclosure **Powder Coated Steel Enclosure Size**  $16 \times 16 \times 10$  in

 $(40.64 \times 40.64 \times 25.4 \text{ cm})$ 

**Shipping Weight** 125 lb / 56.7 kg

**Environmental** 

**MTBF** >100,000 hours **Operating Temp**  $-40^{\circ}$  C to  $+70^{\circ}$  C Storage Temp -40° C to +85° C

ENCY COMPLIANCE





Listed power ratings under ideal conditions (70°F / 21.1°C). Batteries can lose up to 50% power below -17.8°C / 0°F.

Minimum recharge time varies by application, ComNet recommends a minimum of 8 hours of charging per day.

# **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 NWPM4848G - 48 VDC Input 35 W Midspan Power Injector [3] Add suffix '/NB' to the part number you order if you wish to exclude battery from the kit

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

