

Wall Mount DC Standby System

DSB SERIES

200-1100 Watts



- CE Marked EMC & LVD
- Complete Charger/Battery Solution
- Up To 1.1 kW Power
- 76 Ah of Internal Battery
- External Battery Packs
- System Included LVD
- Standard & Optional Alarms Packages

Specification

RECTIFIER

Input Voltage	• 90-132 V/175-264 V AC link selectable, autoranging (250-370 V DC), 55 V, 400 V AC or universal PFC 90-264 V - DSB750/1K1 230 V AC only
Input Frequency	• 40-66 Hz (400 Hz with <20 mA earth leakage)
Inrush Current	• 15/25 A (115/230 V AC)
Earth Leakage Current	• 2.5 mA
Line Regulation (on mains)	• <0.5% for maximum input voltage range
Load Regulation (on mains)	• <1% for 0-100% load change
Output Ripple & Noise	• <1% pk-pk
Rectifier Overload Protection	• 110% Inom constant current
Overvoltage Protection	• 120% approx Vnom
Rectifier Efficiency	• 80-95% dependant on model
Operating Temperature	• 0 °C to +40 °C without derating (Rectifier)
Storage Temperature	• -20 °C to +85 °C (Rectifier)

BATTERY

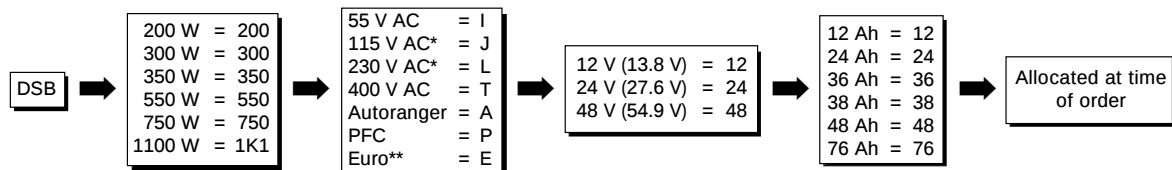
Nominal Battery Voltages	• 12 V, 24 V & 48 V - consult office for other voltages
Internal Batteries Used	• 5 years design life VRLA
Operating Temperature	• 0 °C to +40 °C (lifetime/runtimes @ 25 °C)
Storage Temperature	• -20 °C to +60 °C
End Cell Voltage	• 1.75 V DC (21 V DC for 24 V nom systems, 42 V DC for 48 V nom systems)
Signals & Alarms	• See Table

EMC & SAFETY

Emissions	• EN55022B conducted & radiated
Safety	• CE Marked for LVD & EMC
Enclosure	• IP20 rated

Model Numbering

Model Power Of Charger Input Nominal Output Ah: Special Options Code:



Example: **DSB 200 - P 24 38 - 01**

Example shown has:
200 W charger, PFC input, 24 V DC nominal output including 38 Ah internal battery.

* The J (115 V AC) & L (230 V AC) are actually the same unit. The standard L (230 V AC) supply can be configured to 115 V AC by the application of a link on the input terminal block. Alternatively, the unit may be ordered with factory fitted link for 115 V AC operation by inserting code J.
** 230 V AC only (not link selectable).

Standard Configured Model Numbers

Charger	Input	Standard Alarms	Output Voltage	Battery Ah	Load Current Available	Model Number
200 W	P	✓	12 V	12 Ah	16.8 A	DSB200-P1212-01
300 W	P	✓	12 V	24 Ah	19.6 A	DSB300-P1224-01
350 W	P	✓	12 V	38 Ah	26.2 A	DSB350-P1238-01
350 W	P	✓	12 V	48 Ah	25.2 A	DSB350-P1248-01
350 W	P	✓	12 V	76 Ah	22.4 A	DSB350-P1276-01
200 W	P	✓	24 V	12 Ah	7.8 A	DSB200-P2412-01
350 W	P	✓	24 V	38 Ah	12.2 A	DSB350-P2438-01
200 W	P	✓	48 V	12 Ah	3.8 A	DSB200-P4812-01

Battery Run Time Chart

Time	5 mins	10 mins	30 mins	1 hour	2 hours	3 hours	4 hours	5 hours	8 hours	10 hours	20 hours
12 Ah Battery	37	25	12	7	4	3	2	2	1	1	0.5
38 Ah Battery	-	80	40	23	14	10	8	6	4	3	2.0
76 Ah Battery	-	-	82	48	29	21	16	13	9	7	4.0

NOTES:

1. Shaded areas - Consult Office.

Options/Alarms

Standard Alarms

Input Fail & Battery Fail Volt Free Contact
(AC Fail energises when input voltage <85% of nominal)

ROF Remote On/Off Function

Batt Fail energises when battery terminal voltage >2 V/Cell
Batt Fail de-energises when battery terminal voltage <1.75 V/Cell

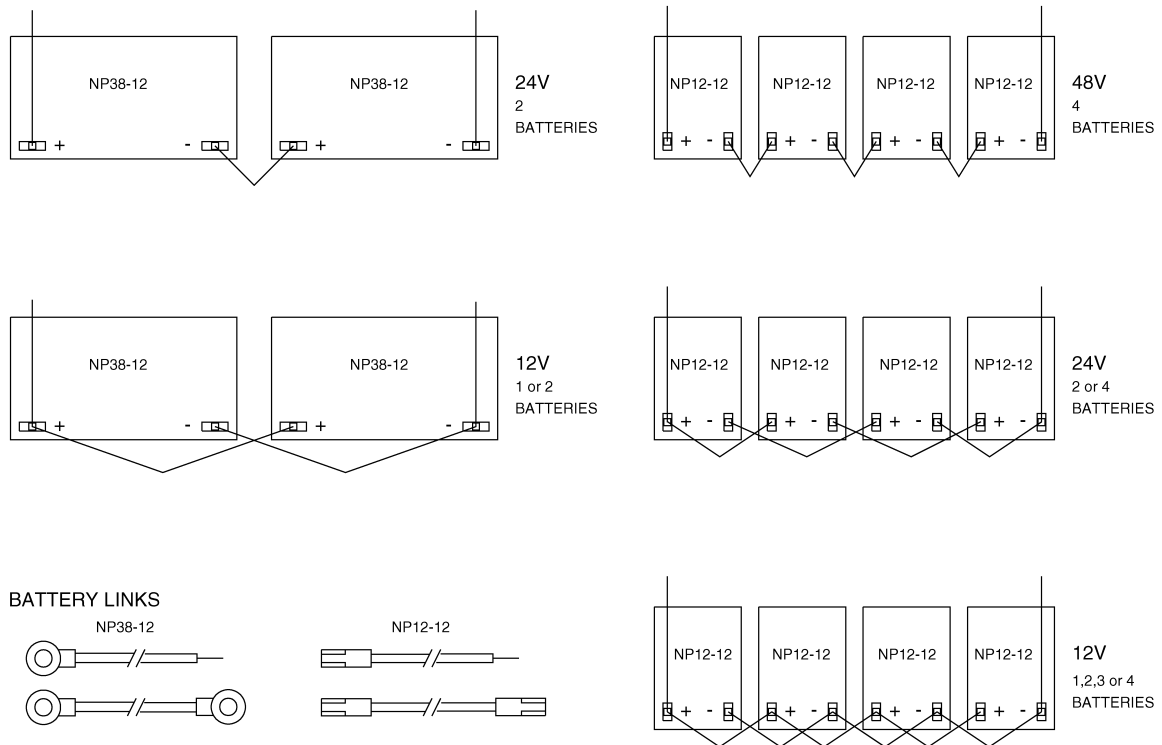
Low Voltage Disconnect with pre-warning 20 sec battery fail signal.
Provided with temperature compensation 3 mV/°C/Cell

Special Alarms

Can be utilised with the ALM Module (See DIN Rail Section) to provide additional isolated inputs and panel meter indication of Volt, Current.

LED indication of LVD, high volts, low volts and isolated condition.

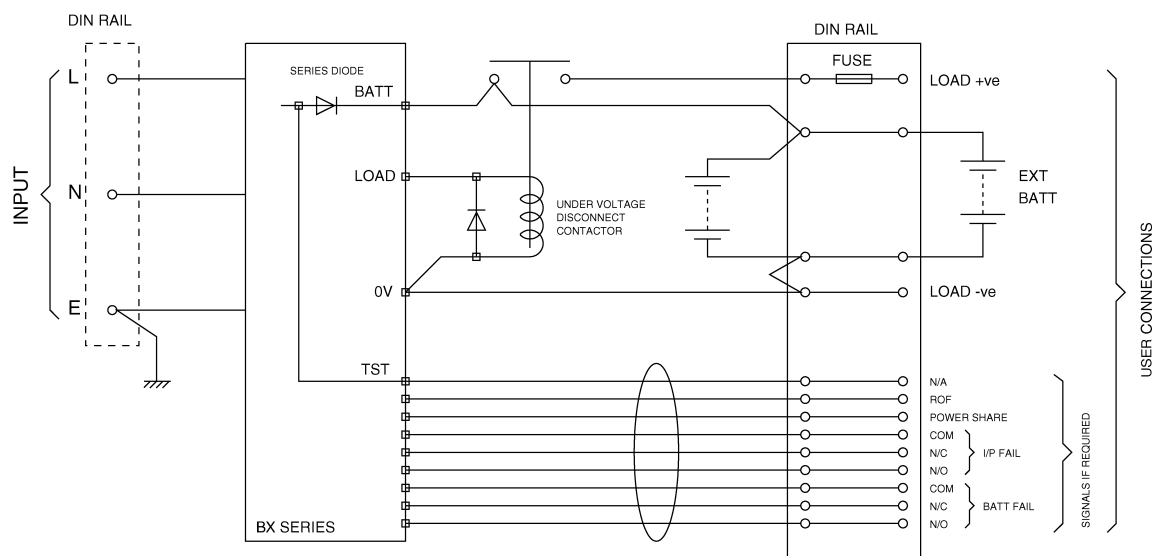
Battery Configuration (Internal)



NOTES:

1. External battery boxes can be added to extend run times. Connection made via DIN Rail terminal block - Consult Office for details.
2. Other configurations available - Consult Office for details.

Schematic Diagram



NOTES:

1. Basic version without ALM Module shown.

Mechanical Details

