

NetSure™ 4000 Series

400V DC Battery Tray

PRELIMINARY

Key Features

- 7 minutes backup for 10kW per tray
- One string each; 336V DC nominal, 378V DC float charge
- Designed for easy and safe installation with (6) battery sub-trays in parallel and connectorized cable assembly
- Remote trip breaker for low voltage protection
- 4U high, 19" mounting
- CE Marked, UL Recognized (EN/UL 60950) (pending)

Add backup power to a NetSure™ 4000 Series power system with 400V DC Battery Trays.

Description

The 400V DC Battery Tray is specifically designed for use with NetSure™ 4000 Series DC power systems. Simple assembly on site can be accomplished by a single person with (6) battery sub-trays that help reduce the installation weight of the tray. Using standard 35 watt/cell (15 min rate) 12V VRLA battery blocks, each battery tray holds 28 blocks configured in (1) 336V nominal string. A single string can supply 7 minutes of backup time at 10kW load. Refer to the battery backup table on the following page for available backup times.

Additional Information

Additional specification, engineering and installation information may be obtained by requesting SAG584000300 for the system.



PRELIMINARY

Battery Backup Time (minutes)

Load	Number of Strings/Trays				
	1	2	3	4	5
5kW	19	49	>60	>60	>60
10kW	7	19	36	49	>60
15kW		11	19	30	41
20kW		7	13	19	27
25kW		4	9	14	19
30kW		1	7	11	15

NOTE: Backup times based on 25° C ambient with fully charged batteries; discharge to 1.6vpc, 270VDC.

Technical Specifications

Rating	
Nominal Voltage	336V DC
Float Voltage	378V DC
Capacity	35 Watt/cell (15 min rate), see run time table above (Battery Backup Time)
Cells	28 x 12V blocks; Enersys Data Safe NPX-35TFR or equivalent
Protection	40A shunt trip circuit breaker
Type	High rate discharge lead acid (VRLA), flame retardant (V0) case
Design Life	3-5 years @ 25° C (77° F)

Environmental	
Operating Temperature	Range: -5° to + 35° C; Recommend 20° to 25° C
Storage Temperature	-20 to +50° C
Relative Humidity	0-95% non condensing
Elevation	Up to 10,000' (3000 m) at full power
Cooling	Convection
RoHS	RoHS 5 compliant

Mechanical	
Hardware Interface	Power cable to power/control sub-rack included Control cable to power/control sub-rack included
Tray Dimensions (H x W x D)	4U x 19" x 33" (4U x 483 x 724 mm)
Battery Dimensions (H x W x D)	3.8" x 2.6" x 5.9" (98 x 65 x 151 mm)
Complete Tray Weight	230 lbs (105kg) with batteries
Sub-Tray Weight	40 lbs (18 kg) with 6 batteries

Safety	
Safety Agencies	CE marking per low voltage directive (EN 60950) and the EMC directive / UL recognized per UL 60950 (cUR for Canada) (pending)

Note: Specifications subject to change without notice.

Ordering Information

Part Number	Description
584000300	NetSure™ 4015, 30kW 400V DC power system
58400030091	Battery tray - HRMG
58400030092	Battery tray - NPG

Note: HRMG = High Resistance Mid-point Ground and NPG = Negative Pole Ground.

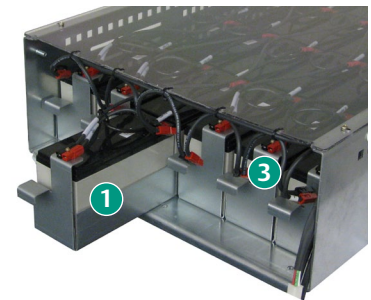
EmersonNetworkPower.com/EnergySystems (North America)
EmersonNetworkPower.eu/EnergySystems (EMEA)

© Emerson Network Power Energy Systems North America 2012.

Standard System Overview



Battery Tray – Front View



Battery Tray – Rear View

- (6) sub-trays in parallel for safe isolation and ease of assembly**
- Breaker with remote trip for LVD (low voltage disconnect) and system shutdown**
- Quick connects on each sub-tray for easy assembly**

Emerson Network Power.

The global leader in enabling *Business-Critical Continuity™*.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- Embedded Power
- Industrial Power
- Infrastructure Management & Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services

Business-Critical Continuity™, Emerson Network Power™, the Emerson Network Power logo, Emerson® and Consider it Solved are service marks and trademarks of Emerson Electric co. EnergyMaster™, eSure™, NetPerform™, NetReach™, NetSpan™, NetSure® and NetXtend™ are trademarks of Emerson Network Power Energy Systems North America.

EMERSON. CONSIDER IT SOLVED.™