

SDU 24-BATEM INSTRUCTION MANUAL
SDU 24-BATEM External Battery
IMPORTANT SAFETY INSTRUCTIONS! SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.
This manual contains important safety instructions. Read all safety, installation, and operating instructions before operating the Uninterruptible Power System (UPS). Adhere to all warnings on the unit and in this manual. Follow all operating and user instructions. This equipment is designed for Industrial or Commercial use.
WARNING – EXPLOSION HAZARD! This product is NOT FOR USE in a Hazardous Locations Environment.
<ul> <li>WARNING – EXPLOSION HAZARD! This product is NOT FOR USE in a Hazardous Locations Environment.</li> <li>WARNING – Observe all cautions and warnings in this manual. Failure to do so MAY result in serious injury or death. Refer all UPS and battery service to qualified service personnel. Do not attempt to service this product yourself. Never work alone.</li> </ul>
WARNING – Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from the batteries. PROPER DISPOSAL OF BATTERIES IS REQUIRED. REFER TO YOUR LOCAL LAWS AND REGULATIONS FOR BATTERY DISPOSAL REQUIREMENTS.
<b>CAUTION</b> – Always disconnect this External Battery Module from the SDU Power module before replacing the batteries.
CAUTION – When replacing the batteries, use the same number and type of batteries. See the "SDU 24-BATEM Battery Replacement Instructions" section below for battery manufacturer and type required for replacement.
CAUTION – Do not dispose of battery or batteries in a fire. The battery may explode. Do not open or mutilate the battery or batteries. Released electrolyte is harmful to skin and eyes. It may be toxic. For battery recycling information, contact CSB recycling network at : 1-800-738-7372
WHAT'S INCLUDED
1. SDU 24-BATEM: External battery module.
2. SDU 24-EXTBC6B: Pair of 6 foot polarized cables for connecting the external battery module to the power module
NOTE: The circuit breaker must be in the open position "O" prior to installation.
SDU 24-BATEM INSTALLATION
The SDU 24-BATEM can be installed as stand alone equipment. The NEMA 1 enclosure features removable cover and knockout holes to ease the installation process.
If necessary, the black and red terminals of the polarized cable SDU 24-EXTBC6B can be detached from one another to separate the black wire from the red wire and allow them to slide easily through the conduit.
Before closing the circuit breaker of SDU 24-BATEM, make sure that one end of the red terminals of the polarized cable is connected to the red terminal of the SDU DC UPS power module and the other red terminal end of the polarized cable is connected to the red terminal of the external battery module SDU 24-BATEM. The same approach applies to the black terminals.
TECHNICAL SUPPORT & WARRANTY INFORMATION
Contact Technical Support: 1-800-377-4384 • 1-847-268-6651 • solahd.technicalservices@emerson.com • www.solahd.com For warranty information: Please see the enclosed Terms & Conditions of Sale sheet.
While every precaution has been taken to ensure accuracy and completeness in this manual, Appleton Grp LLC d/b/a Appleton Group assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice.

# SOLAHD

## BACK-UP TIME OF SDU DC UPS WITH SDU 24-BATEM (IN MINUTES) VERSUS LOAD PERCENTAGE

**REMARK**: Resistive loads were used to measure the battery run time, using other types of load may result in different battery run time. Run times are based on new, fully charged battery module at a temperature of 25°C (77°F). Run times may vary due to manufacturing variance of the individual batteries.

## DC UPS with SDU 24-BATEM External Battery Pack (EBP)

The external battery module SDU 24-BATEM includes two (2) user replaceable batteries.

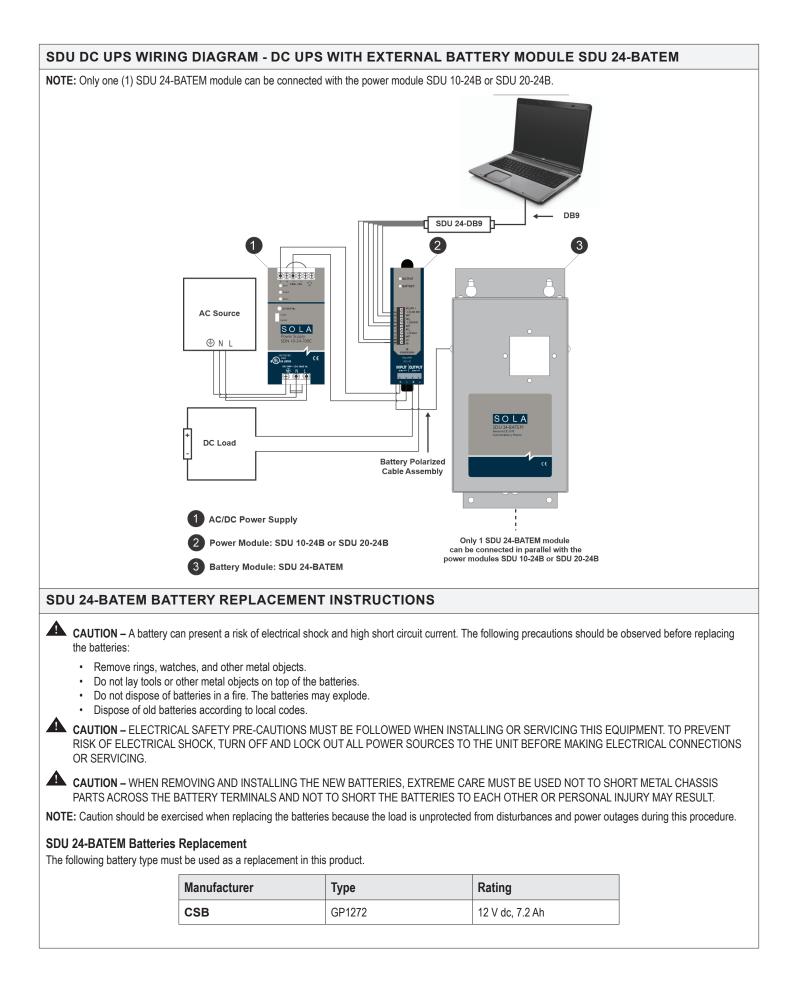
SDU 10-24B with S	SDU 24-BATEM				
Load	20% (2A)	40% (4A)	60% (6A)	80% (8A)	100% (10A)
1 EBP	135	52	28	19	14

SDU 20-24B with SDU 24-BATEM

Load	20% (4A)	40% (8A)	60% (12A)	80% (16A)	100% (20A)
1 EBP	48	17	9	6	4

### **SDU 24-BATEM SPECIFICATIONS**

Parameter	SDU 24-BATEM			
Nominal Voltage	24 VDC			
Protection	Circuit Breaker: 24V, 25A			
Charging Current	1.2			
Enclosure Dimension in. (mm)	11.5 x 5.57 x 4.57 (292 x 142 x 116)			
Enclosure Type	NEMA 1			
Terminal Connector Type	Polarized Powerpole Connectors			
Batteries	Replaceable - Refer to the instructions for replacement.			
Accessories	6 ft polarized battery cable			
Operating Temperature	-20o to +50o C			
Charge Temperature	0o to +40o C			
Storage Temperature	-20o to +40o C			
Humidity	95% no condensation			
Certifications	cULus Listed: UL 508/CSA 107.1, UL/CSA 61010-1, UL/CSA 61010-2-201 cRUus: UL/CSA 60950-1, UL/CSA 62368-1			
	CE/UKCA: IEC/EN 62368-1, IEC/EN 61010-1, IEC/EN 61010-2-201			
Weight Ibs (kg)	16 (7.26)			
Mounting	Wall/Chassis Mounting			

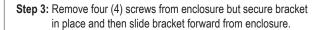


# SDU 24-BATEM BATTERY REPLACEMENT INSTRUCTIONS (CONTINUED)

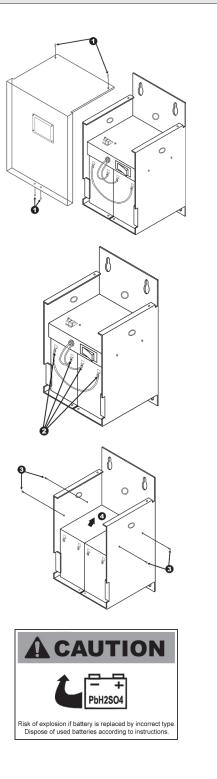
## Steps to Replace the Batteries

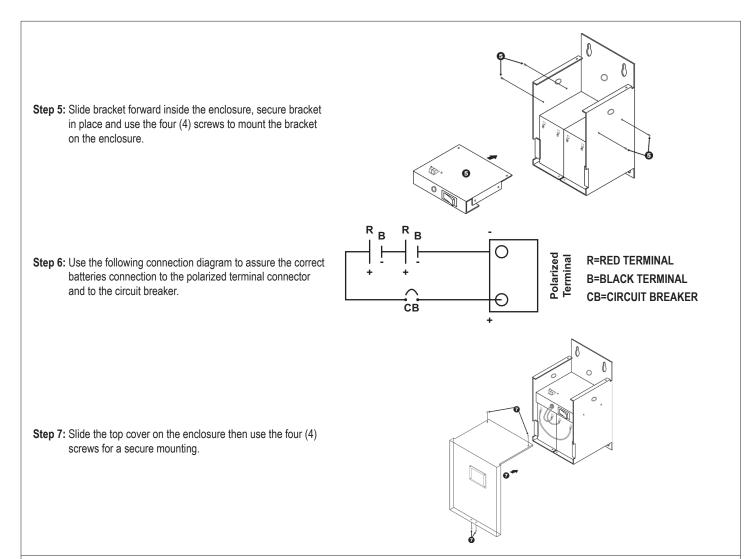
Step 1: Remove four (4) screws from cover and slide cover forward off enclosure.

Step 2: Remove wires from battery posts



Step 4: Remove failed batteries and insert new Replaceable Batteries.





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