

PS-UPS40 Specifications



MTBF

DIMENSION

PACKING





Features:

- Battery controller for DIN Rail UPS system
- Parallel connection to DC BUS
- Suitable for 24V system up to 40A
- Installed on DIN Rail TS35/ 7.5 or 15
- Built-in battery test function
- Battery polarity protection
- Relay contact signal output and LED indicator for DC BUS OK,
- · Battery fail, and battery discharge
- Cooling by free air convection
- 3 year warranty

DC	INPUT/
DC	BUS

BATTERY IN / OUTPUT

FUNCTION

ENVIRONMENT

SAFETY & EMC

OTHERS

Cat. No.	PS-UPS40
DC VOLTAGE (Typ.) RATED CURRENT	24 ~ 29V 40A
VOLTAGE RANGE (Typ.) CURRENT RANGE CHARGE CURRENT (Typ.) EXTERNAL BATTERY (Typ.)	21 ~ 29V 0 ~ 40A 2A 4/7/12AH/24V
RELAY CONTACT RATING (max.) DC BUS OK	30VDC, 1A Relay contact: Short when DC voltage between 21 ~ 29V (±3%), relay contacts LED (Green): DC BUS OK: light; DC BUS fail: dark
BATTERY FAIL	Relay contact: Short when battery failure is observed through the battery test function, relay contacts LED (Red): Battery over- discharge warning or battery broken: light; Battery OK: dark Every 25 seconds, unit will send out test signal through Battery Fail relay contact and LED indicator once the battery is fail.
BATTERY DISCHARGE	Relay contact: Short when battery in discharge condition, relay contacts LED (Yellow): Battery discharging: light; Battery is not discharging or discharging current ≤2.0A: dark
WORKING TEMP. WORKING HUMIDITY	-20 ~ +70°C 20 ~ 90% RH
STORAGE TEMP., HUMIDITY VIBRATION MOUNTING	-20 ~ +85°C, 10 ~ 95% RH 10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z axes Compliance to IEC60068-2-6
WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	Terminal- Chassis: 0.5KVAC, Relay Contacts- Terminal: 0.5KVAC Terminal- Chassis: ≥100M Ohms / 500VDC (25°C; 70% RH) Compliance to EN55022 (CISPR22) Class B
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8; ENV50204; heavy industry level; criteria A

161.9Khrs min. MIL-HDBK-217K (25°C)

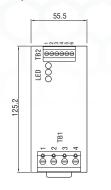
55.5x125.2x100mm (WxHxD)

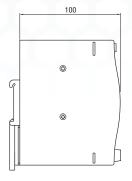
0.55Kg; 20pcs / 12Kg / 1.29CUFT

All parameters NOT specially mentioned are measured at rated load and 25°C of ambient temperature.



Mechanical Specification

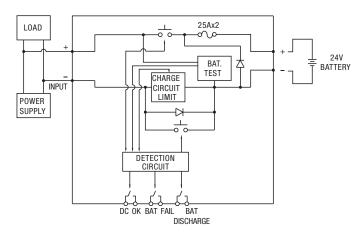




Terminal Pin. No Assignment (TB1)			
Pin No.	Assignment		
1	BATTERY INPUT +		
2	BATTERY INPUT -		
3	DC INPUT -		
4	DC INPUT +		

Terminal Pin. No Assignment (TB2)			
Pin No.	Assignment		
1	BAT DISC 1		
2	BAT DISC 2		
3	BAT OK 1		
4	BAT OK 2		
5	DC OK 1		
6	DC OK 2		

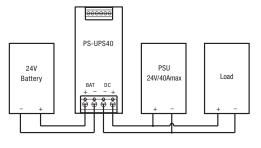
Block Diagram

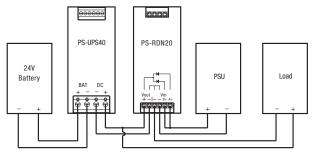


Applications

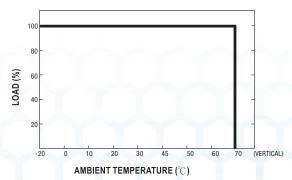
1. Backup connection for AC interruption

2. Combine redundancy module (PS-RDN20) to back up AC interruption or failure of PSU





Derating Curve



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

CC Class 2 Series

PSA Flex Series

PSB FIEX Series

PS-S Slim Series

PS LOW Profile Ser.

25 Industrial Series

PSC 8 M Series

CBI TYPE

CB Type Chargers

vcceszorie.

Appendix