

PS-UPS40

Specifications

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

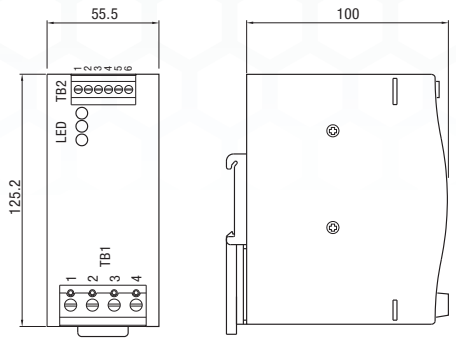
SAFETY & EMC

OTHERS

Cat. No.	PS-UPS40
DC VOLTAGE (Typ.)	24 ~ 29V
RATED CURRENT	40A
VOLTAGE RANGE (Typ.)	21 ~ 29V
CURRENT RANGE	0 ~ 40A
CHARGE CURRENT (Typ.)	2A
EXTERNAL BATTERY (Typ.)	4 / 7 / 12AH / 24V
RELAY CONTACT RATING (max.)	30VDC, 1A
DC BUS OK	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.	-20 ~ +70˚C
WORKING HUMIDITY	20 ~ 90% RH
STORAGE TEMP., HUMIDITY	-20 ~ +85˚C, 10 ~ 95% RH
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z axes
MOUNTING	Compliance to IEC60068-2-6
WITHSTAND VOLTAGE	Terminal- Chassis: 0.5KVAC, Relay Contacts- Terminal: 0.5KVAC
ISOLATION RESISTANCE	Terminal- Chassis: ≥100M Ohms / 500VDC (25˚C; 70% RH)
EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8; ENV50204; heavy industry level; criteria A
MTBF	161.9Khrs min. MIL-HDBK-217K (25˚C)
DIMENSION	55.5x125.2x100mm (WxHxD)
PACKING	0.55Kg; 20pcs / 12Kg / 1.29CUFT

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

Mechanical Specification



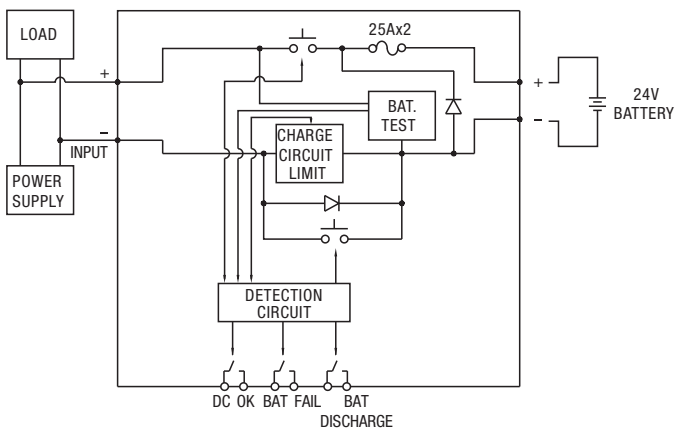
Terminal Pin. No Assignment (TB1)

Pin No.	Assignment
1	BATTERY INPUT +
2	BATTERY INPUT -
3	DC INPUT -
4	DC INPUT +

Terminal Pin. No Assignment (TB2)

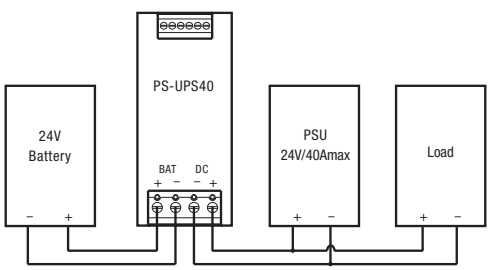
Pin No.	Assignment
1	BAT DISC 1
2	BAT DISC 2
3	BAT OK 1
4	BAT OK 2
5	DC OK 1
6	DC OK 2

Block Diagram

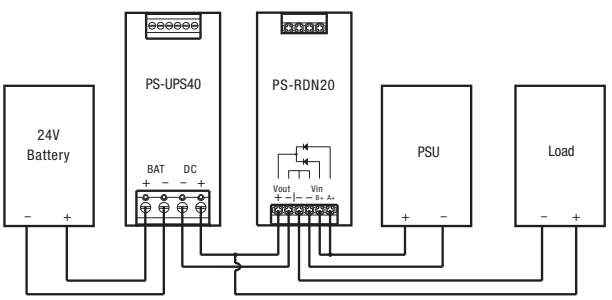


Applications

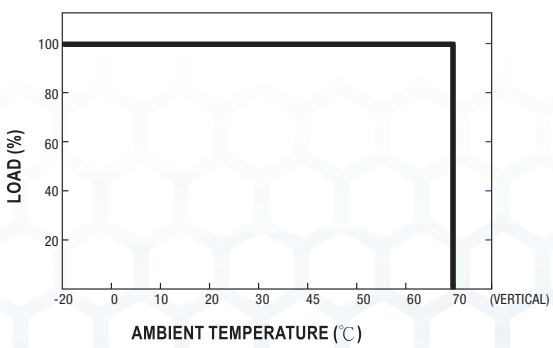
1. Backup connection for AC interruption



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.