

DUPS40





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Features

- Uninterruptible DC-UPS controller
- Parallel connection to DC BUS (Power supply + DC-UPS Module + Batteries + Load)
- Suitable for 24V system, up to 40A
- 2A Battery charging current
- Allows 4AH~135AH lead-acid various battery capacities
- Complete diagnostic and monitoring for DC BUS OK, battery discharge, battery fail
- · LED indicator for signal status
- Protections: Battery reverse polarity protection & Short circuit(By internal detection)
 / Battery discharge / Over discharge current
 GTIN CODE
- · Cooling by free air convection
- · 3 years warranty

Description

The DUPS40 is a 40A DIN rail type DC-UPS module, and it is paired with a power supply and an external battery to achieve the backup function. When the AC mains fails or is interrupted, the load will be immediately connected to the battery pack to avoid interruption and to ensure the continuous operation of the entire system (the operating time depends on the capacity of the battery pack).

The main features of DUPS40 include: fast installation, suitability for 24V battery packs and various capacities of 4AH~135AH, 2A battery charging current, low voltage disconnect for battery protection and more. The product is suitable for use in data centers, security systems, emergency lighting, wireless communication UPS, central monitoring systems, etc.

Model Encoding DUPS 40 +

Output Current (40A)
DIN rail DC-UPS Module



Applications

- Industrial control system
- Semiconductor fabrication equipment

MW Search: https://www.meanwell.com/serviceGTIN.aspx

- Factory automation
- Electro-mechanical apparatus



SPECIFICATION

	DUBS40		
BATTERY POLARITY	Protected by internal detection, No Damage, recovers automatically after fault conduction is removed This protection only works when batteries are not connected, No Damage. External fuse is recommended when batteries are connected.		
SHORT CIRCUIT			
OVER DISCHARGE CURRENT	42~46A,After 3 sec., unit will cut-off battery discharging by relay		
BATTERY DEEP DISCHARGE	Cut-off battery discharging by relay		
RELAY CONTACT RATINGS (max.)	30VDC/1A resistive load		
DC BUS OK	Relay contact : Short when DC voltage between 21~29V(±2%), relay contacts LED(Green) : DC BUS OK : light ; DC BUS fail : dark		
FUNCTION BATTERY FAIL Note.2 BATTERY DISCHARGE	Short when battery voltage falls below $22V(\pm 2\%)$ or battery failure is observed through the battery test function, relay contacts		
	LED(Red) : Battery over-discharge warning or battery broken : light ; Battery OK : dark		
	LED(Yellow) : light : Battery discharging ; dark : Battery is not discharging or discharging current < 2.0A		
COOLING	Free air convection		
	5 ~ 95% RH non-condensing -40 ~ +85°C ±0.03%/°C (0 ~ 60°C) Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6		
	IP/OP - Chassis : 0.5KVac ; IP/OP- Relay : 0.5KVac ; Relay - Chassis : 0.5KVac		
EMC EMISSION (Note.5)		-	Test Level / Note
	•		
			Test Level / Note
	Farameter	Stanuaru	
	ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact; criteria B Level 2, 4KV air ; Level 1, 2KV contact; criteria A
	Radiated	BS EN/EN61000-4-3	Level 3, 10V/m ; criteria A
	EFT / Burst	BS EN/EN61000-4-4	Level 3, 2KV ; criteria A
	Surge	BS EN/EN61000-4-5	Level 3, 0.5KV(DC input ports)
	Conducted	BS EN/EN61000-4-6	Level 3, 10V ; criteria A
	Magnetic Field	BS EN/EN61000-4-8	Level 4, 30A/m ; criteria A
MTBF	1376.5K hrs min. Telcordia SR-332 (Bellcore) ; 499.5K hrs min. MIL-HDBK-217F (25° C)		
DIMENSION	63*125.2*113.5mm (W*H*D)		
PACKING	0.42Kg; 20pcs/9.4Kg/1.57CUFT		
 Every 30 seconds, unit will test the Derating may be needed over high The ambient temperature derating higher than 2000m(6500ft). The unit is considered a componen a 360*720mm metal plate with 1mm how to perform these EMC tests,pl 	battery. If the testing result is faulty ambient temperature. Please chec of 3.5°C/1000m with fanless model t which will be installed into a final m of thickness. The final equipment	, unit will turn on "Battery k the derating curve for m s and of 5°C/1000m with equipment. All the EMC te t must be re-confirmed th onent power supplies."(as	Fail" relay contact and "Red LED" indicator. nore details. fan models for operating altitude ests are been executed by mounting the unit on at it still meets EMC directives. For guidance on available on http://www.meanwell.com)
	OVER DISCHARGE CURRENT BATTERY DEEP DISCHARGE RELAY CONTACT RATINGS (max.) DC BUS OK BATTERY FAIL Note.2 BATTERY FAIL Note.2 BATTERY DISCHARGE COOLING WORKING TEMP. Note.3 WORKING HUMIDITY STORAGE TEMP. TEMP. COEFFICIENT VIBRATION OPERATING ALTITUDE Note.4 SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE ISOLATION RESISTANCE EMC EMISSION MTBF DIMENSION PACKING 1. All parameters NOT specially ment 2. Every 30 seconds, unit will test the 3. Derating may be needed over high 4. The ambient temperature derating higher than 2000m(6500ft). 5.The unit is considered a component a 360*720mm metal plate with 1 mm	INPUT VOLTAGE RANGE 24 ~ 29Vdc RATED CURRENT 40A VOLTAGE RANGE 21 ~ 29Vdc DISCHARGE CURRENT ANGE 0 ~ 40A CHARGING CURRENT 2A NORMAL BATTERY VOLTAGE 24Vdc (2 x 12Vdc in series or 1 x 24 BATTERY TYPE Lead-acid battery EXTERNAL BATTERY CAPACITIES 4AH ~ 135AH BATTERY POLARITY Protected by internal detection, Nc SHORT CIRCUIT This protection only works when ba when batteries are connected. OVER DISCHARGE CURRENT 42~46A, After 3 sec., unit will cut-o BATTERY DEP DISCHARGE Cut-off battery discharging by relay RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load DC BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load CD C BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load CD C BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A resistive load CD C BUS OK RELAY CONTACT RATINGS (max.) 30VDC/1A (D - Chassis . IP/OP-Relay, Rela REME RINSION RELAY CONTACT RATING (MAX.) 2000 meters/OVC II SAFETY STANDARDS RELAY CONTACT RATING (MAX.) 2007 Relay, Relay, Rela RELAY CONTACT RATING (MAX.) 2007 Relay, Rela	NORMAL INPUT VOLTAGE 24Vdc INPUT VOLTAGE RANGE 24 ~ 29Vdc RATED CURRENT 40A VOLTAGE RANGE 21 ~ 29Vdc DISCHARGE CURRENT RANGE 0 ~ 40A CHARGING CURRENT 2A NORMAL BATTERY VOLTAGE 24Vdc (2 x 12Vdc in series or 1 x 24Vdc) BATTERY TPP Lead-acid battery EXTERN XAL BATTERY CAPACITIES AAH ~ 13SAH BATTERY POLARITY Protected by internal detection, No Damage, recovers auton SHORT CIRCUIT This protection only works when batteries are not connected when batteries are connected. OVER DISCHARGE CURRENT 42-46A, After 3 sec., unit will cul-off battery discharging by risp fraction only works when batteries are not connected when batteries are connected. OVER DISCHARGE CURRENT 24-46A, After 3 sec., unit will cul-off battery discharging by risp fraction only works when battery discharging risp fraction only works when battery discharging risp fraction only works when battery in discharge condition, relatery in discharge condition, relatery fraction fraction only ind fraction fraction only works when battery in discharge condition, relatery in discharge condition, relatery in discharge condition, relatery indischarge discharging risp fraction fracting fraction





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2.5 5

10

20

Buffering time VS Discharge Current (A)

40

30

12AH - 15AH





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Suggested Application



