





Features

- Universal AC input / Full range
- · Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery reverse polarity protection by fuse
- Can be installed on DIN rail TS-35/7.5 or 15
- · Alarm signal for AC OK and Battery low via relay contact
- Cooling by free air convection
- · Pass LPS
- · LED indicator for power on
- 100% full load burn-in test
- · 3 years warranty

Applications

- · Security system
- · Emergency lighting system
- · Alarm system
- · DC UPS system
- · Central monitoring system
- Access systems

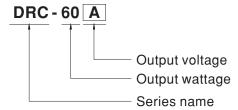
■ GTIN CODE

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

Description

DRC-60 is a 60W AC/DC DIN rail type security power supply series. In addition to the primary output, there is a charger output with a smaller rated current, enabling the backup power supply application the security access systems require. DRC-60 accepts the universal input between 90VAC and 264VAC, and supplies 13.8VDC and 27.6VDC at output, respectively. With the efficiency up to 88%, it can operate with air convection cooling under -30°C through 70°C. In addition to the key protection features such as overload protection, over voltage protection, battery low cut off, and battery reverse polarity protection (by fuse), the alarm signal for AC OK and battery low signaling is provided, via relay contact output, to facilitate the system design.

Model Encoding

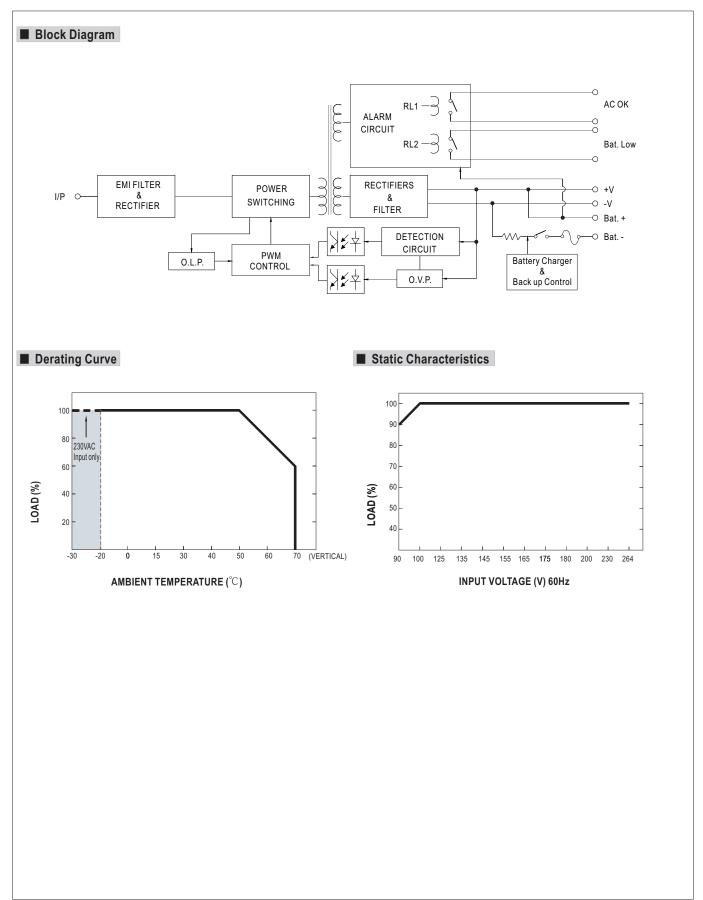




SPECIFICATION

OUTPUT NUMBER					
OUTPUT NUMBER	CH1	CH2	CH1	CH2	
DC VOLTAGE	13.8V	13.8V	27.6V	27.6V	
RATED CURRENT	2.8A	1.5A	1.4A	0.75A	
CURRENT RANGE	0 ~ 4.3A		0 ~ 2.15A		
RATED POWER	59.34W		59.34W		
RIPPLE & NOISE (max.) Note.2	120mVp-p		200mVp-p		
VOLTAGE ADJ. RANGE	CH1:12 ~ 15V		CH1:24 ~ 30V		
VOLTAGE TOLERANCE Note.3	±1.0%		±1.0%		
LINE REGULATION	±0.5%		±0.5%		
LOAD REGULATION	±0.5%		±0.5%		
SETUP, RISE TIME Note.4	400ms, 50ms/230VAC	800ms, 50ms/115VAC at full	lload		
HOLD UP TIME (Typ.)	50ms/230VAC 10ms/11	15VAC at full load			
VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370	0VDC [DC input operation	possible by connecting AC	/L(+), AC/N(-)]	
FREQUENCY RANGE	47 ~ 63Hz				
EFFICIENCY (Typ.)	86%		88%		
AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC				
INRUSH CURRENT (Typ.)					
01/501.040	105 ~ 150% rated output power				
OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed				
OVERVOLTAGE	CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V				
OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover				
BATTERY CUT OFF	10±0.5V 20±1V				
AC OK	Relay contact output, ON : AC OK ; OFF : AC Fail ; max. rating : 30V/1A				
RATTEDVIOW	Relay contact output, OFF: Battery OK; ON: Battery Low; max. rating: 30V/1A				
BATTERT LOW	Battery low voltage : < 11V Battery low voltage : < 22V			2V	
WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")				
WORKING HUMIDITY	20 ~ 90% RH non-condensing				
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
TEMP. COEFFICIENT	$\pm 0.03\%$ /°C (0 ~ 50°C) on CH1 output				
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, AS/NZS 60950.1 approved				
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2k	KVAC O/P-FG:0.5KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020				
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61204-3, light industry level, EAC TP TC 020				
MTBF	1854.1K hrs min. Telcordia SR-332 (Bellcore) ; 504.1K hrs min. MIL-HDBK-217F (25°C)				
DIMENSION	40*90*100mm (W*H*D)				
PACKING	, ,				
2. Ripple & noise are measu 3. Tolerance: includes set up 4. Length of set up time is m 5. The power supply is cons that it still meets EMC dire 6. Installation clearances: 40 permanently with full powe 7. The ambient temperature than 2000m(6500ft). 8. The battery voltage is lowe	ared at 20MHz of bandwidth be professional to	y using a 12" twisted pair-wind load regulation. ming ON/OFF the power supple be installed into a final equipal www.meanwell.com//Upload/bitom, 5mm on the left and rigulation is a heat source, 15mm clear fanless models and of 5°C/1 and cannot perform AC reset	e terminated with a 0.1 μ & ply may lead to increase of pment. The final equipment (PDF/EMI_statement_en.pdf) that side are recommended varance is recommended. 000m with fan models for opcharging.	47 μ F parallel capacitor. the set up time. must be re-confirmed f) when loaded perating altitude higher	
	CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.4 HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) OVERLOAD OVER VOLTAGE BATTERY CUT OFF AC OK BATTERY LOW WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specical special spec	CURRENT RANGE 0 ~ 4.3A	CURRENT RANGE 0 ~ 4.3A	CURRENT RANGE 0 - 4.3A	







■ Suggested Application

1.Backup connection for AC interruption

(1) Please refer to Fig1.1 for suggested connection.

The power supply charges the battery and provides energy to the load at the same time when AC mains is OK.

The battery starts to supply power to the load when AC mains fails.

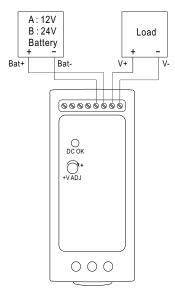


Fig 1.1 Suggested system connection

2. Alarm signal for AC OK and battery low

- (1) Alarm Signal is sent out through "AC OK " & " Battery Low " pins via relay contact.
- (2) An external voltage source is required for this function. The maximum applied voltage is 30V and the maximum sink current is 1A. Please refer to Fig 2.2.
- (3) Table 2.1 explains the alarm function built in the power supply
- (4) AC OK signal (RL1,referring to Block Diagram) will go into hiccup mode when the overload protecton is activated.

Function	Description	Output of alarm	
AC OK	The signal is "Low" when the power supply turns ON.	Low or short	
AC OK	The signal turns to be "High" when the power supply turns OFF.	High or open (External applied voltage 30V max.)	
Battery Low	The signal is "Low" when the voltage of battery is under A:11V, B:22V.	Low or short	
Dattery Low	The signal is "High" when the voltage of battery is above A:11V, B:22V.	High or open (External applied voltage 30V max.)	

Table 2.1 Explanation of alarm signal

AC OK (Battery low)

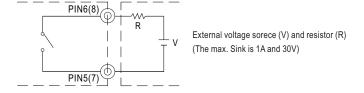


Fig 2.2 Internal circuit of AC OK (Battery Low), via relay contact $\,$

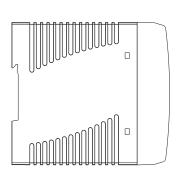


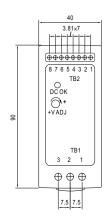
■ Mechanical Specification

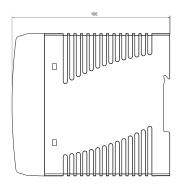
(Unit: mm , tolerance ± 1mm)

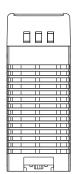


Case No.962A









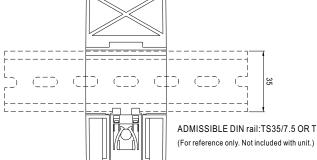
Terminal Pin No. Assignment (TB1):

Pin No.	Assignment	
1	AC/L or DC+	
2	AC/N or DC-	
3	FG ÷	

Terminal Pin No. Assignment (TB2):

Pin No.	Assignment	Pin No.	Assignment
1	-V	4	Bat
2	+V	5,6	AC OK
3	Bat. +	7,8	Bat. Low

■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15. For installation details, please refer to the Instruction manual.

ADMISSIBLE DIN rail:TS35/7.5 OR TS35/15

Back View

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html