





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

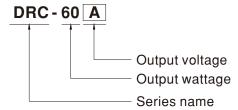
■ GTIN CODE

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

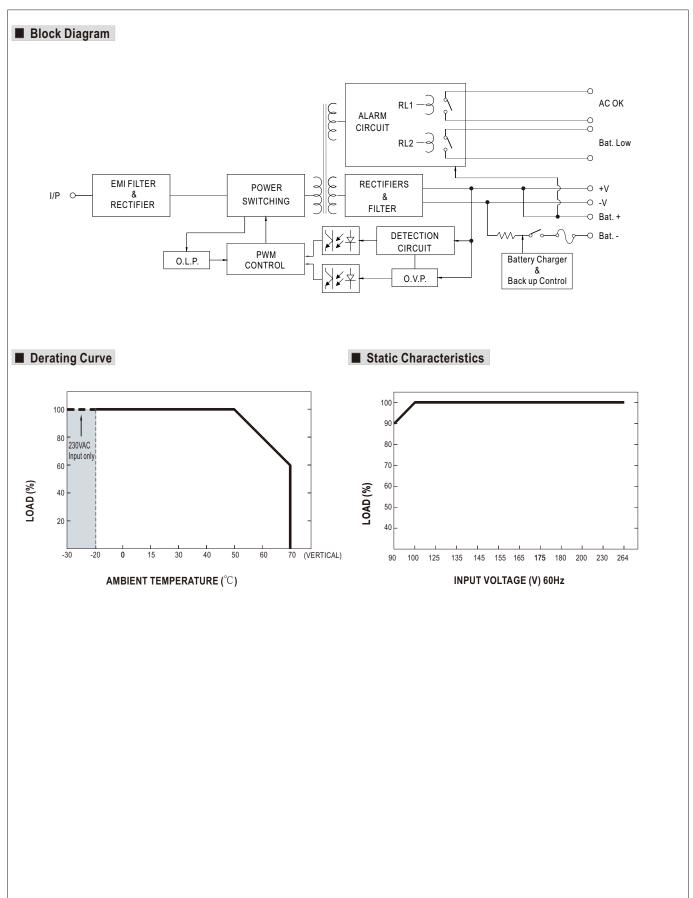




SPECIFICATION

MODEL		DRC-60A		DRC-60B		
	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			200mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	CH1:12 ~ 15V		CH1:24 ~ 30V		
	VOLTAGE TOLERANCE Note.3			±1.0%		
	LINE REGULATION	±0.5%		±0.5%		
	LOAD REGULATION	±0.5%		±0.5%		
	SETUP, RISE TIME Note.4		800ms, 50ms/115VAC at full			
	HOLD UP TIME (Typ.)	50ms/230VAC 10ms/115VAC at full load				
	VOLTAGE RANGE					
	FREQUENCY RANGE	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]				
NPUT		47 ~ 63Hz				
NPUI	EFFICIENCY (Typ.)	86% 88%				
	AC CURRENT (Typ.)	1.3A/115VAC				
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC				
	OVERLOAD 105 ~ 150% rated output power					
			de, recovers automatically af		d	
PROTECTION	OVER VOLTAGE	CH1:14.49 ~ 18.63V				
			o/p voltage, re-power on to re			
	BATTERY CUT OFF	10±0.5V 20±1V				
	AC OK	Relay contact output, ON : AC OK ; OFF : AC Fail ; max. rating : 30V/1A				
FUNCTION	BATTERY LOW	Relay contact output, OFF: Battery OK; ON: Battery Low; max. rating: 30V/1A				
		Battery low voltage : < 11V Battery low voltage : < 22V				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
NVIRONMENT	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				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
Note 5)	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)				
OTHERS	DIMENSION	40*90*100mm (W*H*D)				
	PACKING	0.3Kg; 42pcs/13.6Kg/0.82CUFT				
NOTE	Ripple & noise are mea Tolerance : includes set Length of set up time is The power supply is conthat it still meets EMC c Installation clearances : permanently with full po	nces : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded full power. In case the adjacent device is a heat source, 15mm clearance is recommended. Derature derating of 3.5° C/1000m with fanless models and of 5° C/1000m with fan models for operating altitude higher				







■ 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.

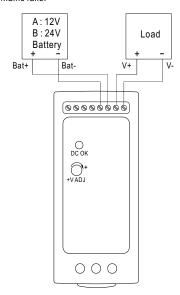


Fig 1.1 Suggested system connection

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	
	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)

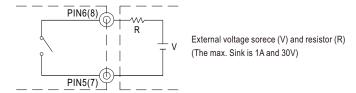


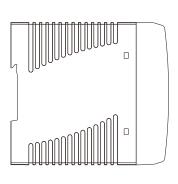
Fig 2.2 Internal circuit of AC OK (Battery Low), via relay contact

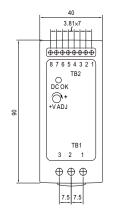


■ Mechanical Specification

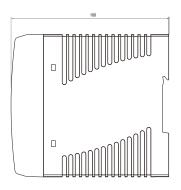
Case No.962A Unit:mm











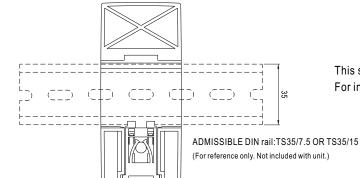
Terminal Pin No. Assignment (TB1):

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.

Back View

■ Installation Manual

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