





■ Features

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

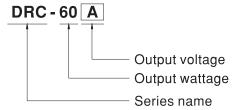
■ Applications

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

Description

DRC-60 series is a 60W AC/DC DIN Rail type security power supply, allowing a universal input range between 90VAC and 264VAC . In addition to the primary output, there is a charger output, with the smaller rated current, that provides the backup power supply application the security access systems require. With the efficiency DRC-60 is up to 88%; it can operate with air convection under -30 $^{\circ}$ C through 70 $^{\circ}$ C. This series is designed with thorough alarm features, including AC OK and battery low signaling; moreover, the relay contact is provided to facilitate users' system designs.

■ Model Encoding

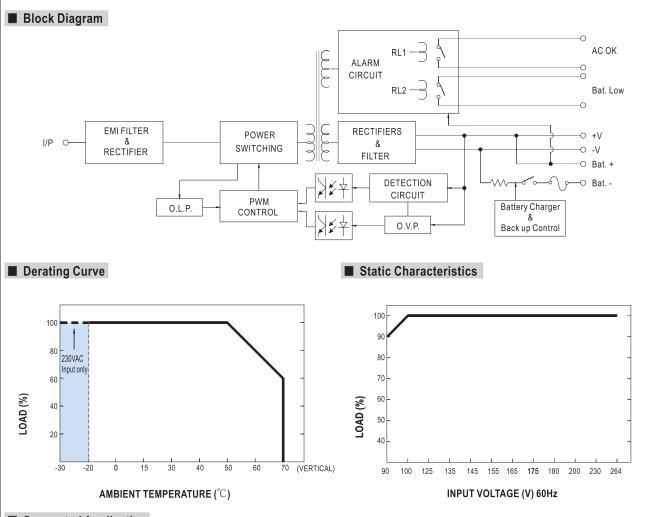




SPECIFICATION

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		
OUTDUT	RIPPLE & NOISE (max.) Note.2	120mVp-p		200mVp-p		
OUTPUT	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 800	Oms, 50ms/115VAC at full load	'		
	HOLD UP TIME (Typ.)	50ms/230VAC 10ms/115VAC at full load				
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]				
	FREQUENCY RANGE	47 ~ 63Hz				
INPUT	EFFICIENCY (Typ.)	86%		88%		
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC				
		105 ~ 150% rated output power				
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION		CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V				
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover				
	BATTERY CUT OFF	10.5±0.5V		21±1V		
FUNCTION	AC OK	Relay contact output, ON : AC (OK; OFF: AC Fail; max. rating:	30V/1A		
	DATTEDY LOW	Relay contact output, OFF : Bar	ttery OK ; ON : Battery Low ; max	rating: 30V/1A		
	BATTERY LOW	Battery low voltage : < 11V		Battery low voltage : < 22V		
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C) on CH1 output				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVA	C 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 EN55022 (CISPR22) Class B, EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61204-3, light industry level, criteria A				
	MTBF	422.8K 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 measure Tolerance : includes set up Length of set up time is me	specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. easured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation. is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets				





■ Suggested Application

1. Back up connection for AC interruption

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

The power supply charge the battery and provide energy to the load in the same time when the AC main is OK.

The battery start to supply power to the load when the AC main fails.

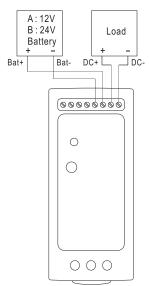


Fig 1.1 Suggested system connection



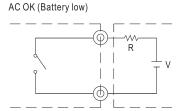
2. Alarm signal for AC OK and Battery Low

- (1) Alarm signal is sent out through " AC OK " & " Battery Low " pins.(relay contact type)
- (2) An external voltage source is required for this function. The maximum applied voltage is 30V and the maximum sink current is 1A.
- (3) Table 2.1 explain the alarm function built-in the power supply

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

(4) RL1 (AC OK) signal will go into hiccup mode when the overload protection is activating.

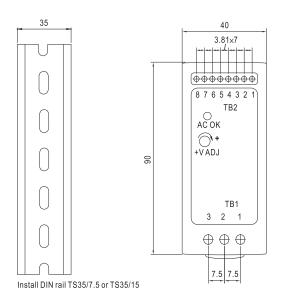


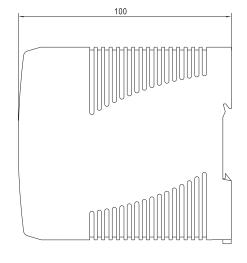
External voltage source (V) and resistor (R) (The max. Sink is 1A and 30V)

Fig 2.2 Internal circuit of AC OK (Battery Low)

■ 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 Manual

Please refer to: http://www.meanwell.com/webnet/search/InstallationSearch.html