





■ 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

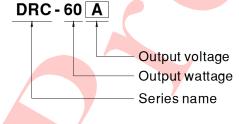
Applications

- 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°C through 70°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



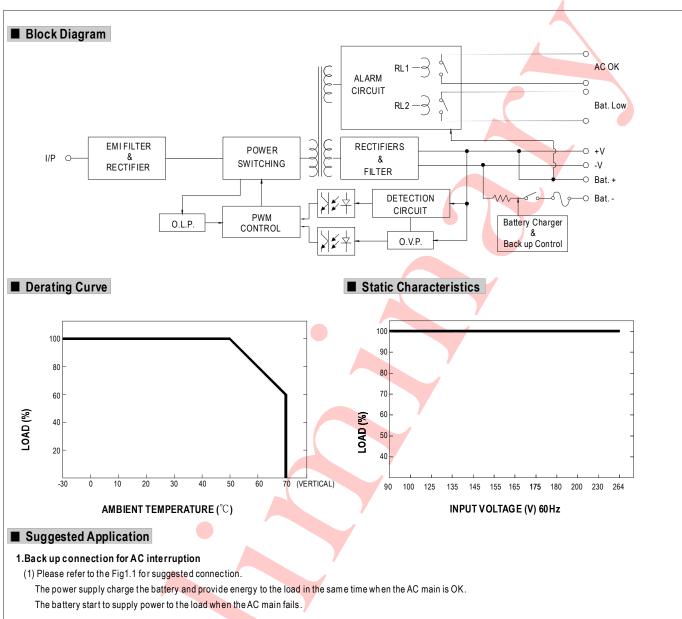


SPECIFICATION

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				
	RIPPLE & NOISE (max.) Note.2	120 mVp-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	500 ms, 50 ms/230 VAC 50	0ms, 50ms/115VAC at full load	d		
	HOLD UP TIME (Typ.)	50ms/230VAC 10ms/115VAC at full load				
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	86%		88%		
	AC CURRENT (Typ.)	1.6A/115VAC 1A/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	0,1	21±1V		
	AC OK	Relay contact output, ON : AC OK : OFF : AC Fail ; max. rating : 30V/1A				
FUNCTION		Relay contact output, OFF: Battery 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: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 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	K hrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	40*90*100mm (W*H*D)				
OTHERS	PACKING	0.33Kg; 42pcs/14.8Kg/0.82CUFT				
		<u> </u>		nd 25°C of ambient temperature		
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets FMC directives 					

5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.





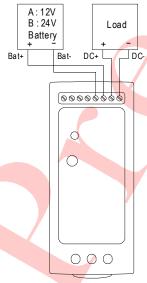


Fig 1.1 Suggested system connection



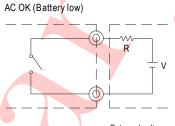
2. Alarm signal for AC OK and Battery Low

- (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	
ACOR	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.

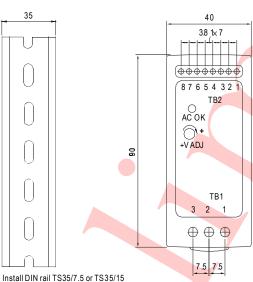


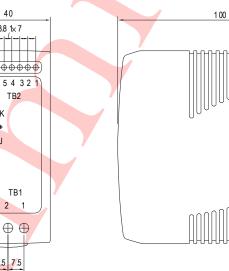
External voltage source (V) and resistor (R) (The max. Sink is 1A and 30V)

Case No.962A Unit:mm

Fig 2.2 Internal circuit of AC OK (Battery Low)

■ Mechanical Specification





Terminal Pin No. Assignment (TB1):

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	Pin No.	Assignm <mark>e</mark> nt				
١	1	AC/L				
	2	AC/N				
	3	FG ÷				

Terminal Pin No. Assignment (TB2):

P in 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