





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)
- · Cooling by free air convection
- · LED indicator for power on
- · 100% full load burn-in test
- · 3 years warranty

(866) 588-1750

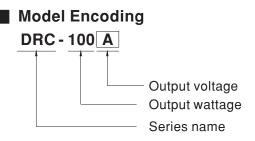
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Applications

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

Description

DRC-100 is a 96W 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-100 accepts the universal input between 90VAC and 264VAC, and supplies 13.8VDC and 27.6VDC at output, respectively. With the efficiency up to 89%, 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.





Measures: 3.94 x 3.54 x 2.16"

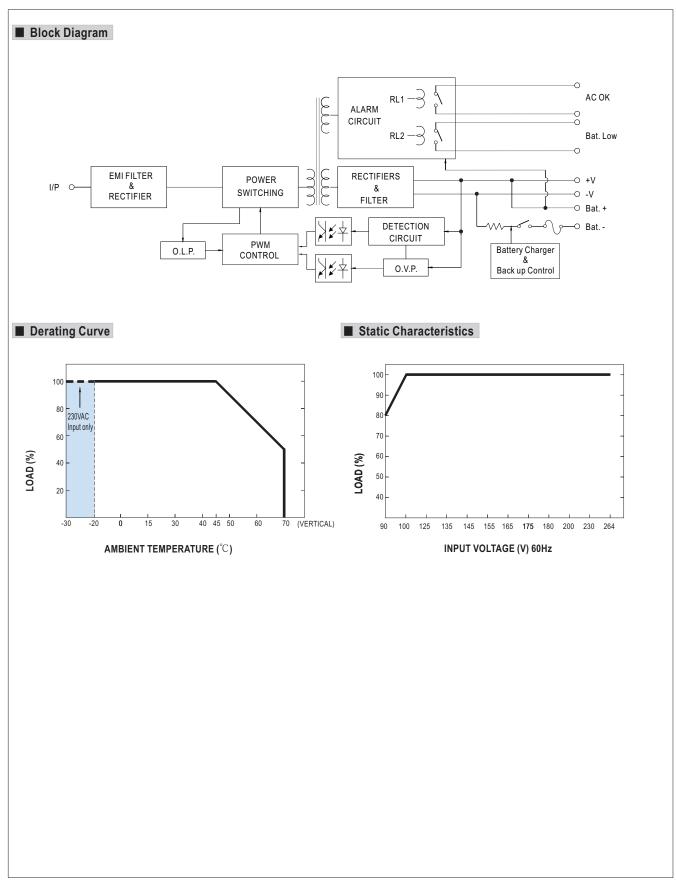
SPECIFICATION

MODEL		DRC-100A		DRC-100B	DRC-100B	
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	
OUTPUT	DC VOLTAGE	13.8V	13.8V	27.6V	27.6V	
	RATED CURRENT	4.5A	2.5A	2.25A	1.25A	
	CURRENT RANGE	0 ~ 7A		0~3.5A		
	RATED POWER	96.6W		96.6W		
	RIPPLE & NOISE (max.) Note.2	120mVp-p		240mVp-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		2400ms, 50ms/115VAC at			
	HOLD UP TIME (Typ.)					
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	87%		89%		
	AC CURRENT (Typ.)	1.8A/115VAC 1.1A/230VAC				
	INRUSH CURRENT (Typ.)					
	INKUSH CUKKENI (Typ.)	COLD START 30A/115VAC 60A/230VAC				
	OVERLOAD	105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
			de, recovers automatically a		loved	
	OVER VOLTAGE	CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V				
		Protection type : Shut down o/p voltage, re-power on to re				
	BATTERY CUT OFF	10±0.5V		20±1V		
FUNCTION	ACOK	Relay contact output, ON : AC OK ; OFF : AC Fail ; max. rating : 30V/1A				
	BATTERY LOW	Relay contact output, OFF : Battery OK ; ON : Battery Low ; max. rating : 30V/1A				
		Battery low voltage : < 11V	r. o	Battery low voltage : < 22V		
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY					
	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 & EMC (Note 5)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC 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 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				
OTHERS	MTBF	410.1K hrs min. MIL-HDBK-217F (25° C)				
	DIMENSION	55*90*100mm (W*H*D)				
	PACKING	0.37Kg; 30pcs/12.1Kg/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 of supplies." (as available Installation clearances : 	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor udes set up tolerance, line regulation and load regulation. to time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. by is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed to EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power vailable on http://www.meanwell.com) ances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded h full power. In case the adjacent device is a heat source, 15mm clearance is recommended.				



MEAN WELL DRC-100 SERIES 100 Watt Battery Charger Power Supply

Measures: 3.94 x 3.54 x 2.16"



File Name DRC-100-SPEC 2014-12-19



Measures: 3.94 x 3.54 x 2.16"

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.

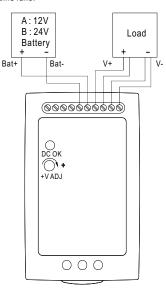


Fig 1.1 Suggested system connection

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 protection is activated.

Function	Description	Output of alarm	
	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.)	
Bettery Lew	The signal is "Low" when the voltage of battery is under A:11V, B:22V.	Low or short	
Battery 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)

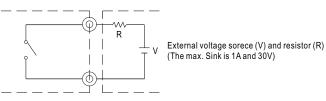


Fig 2.2 Internal circuit of AC OK (Battery Low), via relay contact

http://power.sager.com/mean-well-DRC-100-power-supply.html





