

DRC-100 series



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

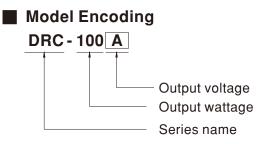


Applications

- 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 $^{\circ}$ C through 70 $^{\circ}$ 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.





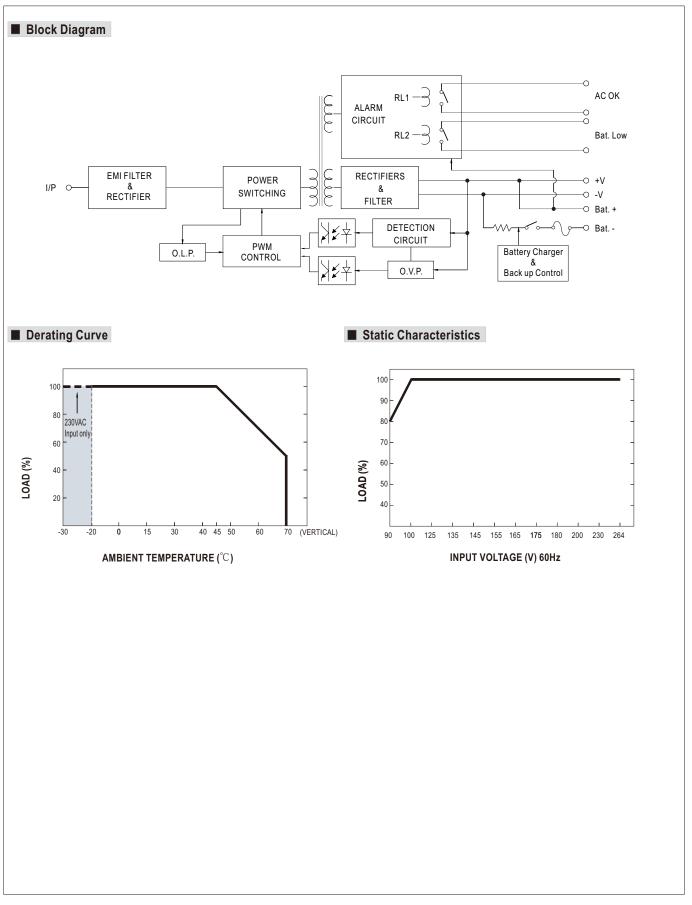
SPECIFICATION

MODEL		DRC-100A		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/230VAC	2400ms, 50ms/115VAC at f	ull 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.)	87% 89%				
	AC CURRENT (Typ.)	1.8A/115VAC 1.1A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC				
		105 ~ 150% rated output power				
PROTECTION	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V				
FROILCHON		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				
FUNCTION	ACON	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 "Dera	ting Curve")	Ballory IOW VOltage 22 V		
		20 ~ 90% RH non-condensing				
	WORKING HUMIDITY 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				
		UL60950-1, TUV EN60950-1 approved				
SAFETY & EMC (Note 5)	SAFETY STANDARDS WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE					
	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 	becially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. asured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. et up tolerance, line regulation and load regulation. s measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. onsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power e on http://www.meanwell.com)				
	6. Installation clearances :	40mm on top, 20mm on the	e bottom, 5mm on the left a	nd right side are recommen m clearance is recommende		



100W Single Output with Battery Charger (UPS Function)

DRC-100 series





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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.

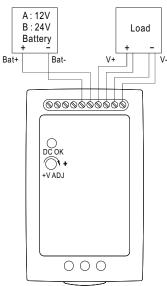


Fig 1.1 Suggested system connection

2. Alarm signal for AC OK and battery low

(1) Alarm signal is sent out through "AC OK " & " Battery Low " pins via relay contact.

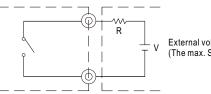
(2) An external voltage source is required for this function. The maximum applied voltage is 30V and the maximum sink current is 1A. Please refer to Fig 2.2. (3) Table2.1 explains the alarm function built in the power supply

(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	
10.01	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.)	
Dettemulaur	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)

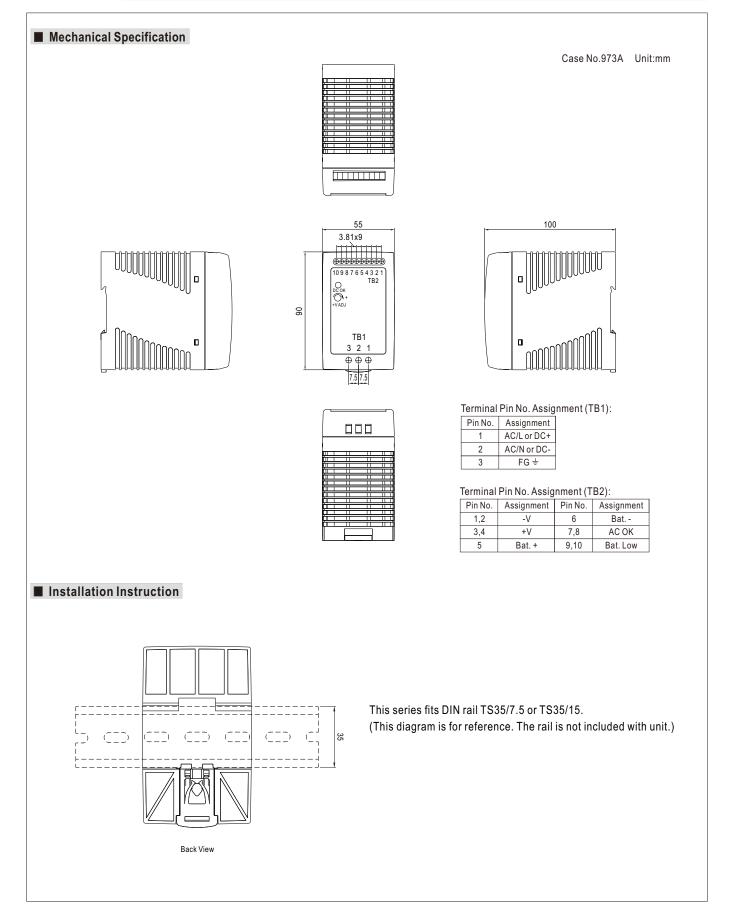


External voltage sorece (V) and resistor (R) (The max. Sink is 1A and 30V)





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