



■ 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 TTL open collector, optional via relay)
- · Cooling by free air convection
- Pass LPS
- · LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

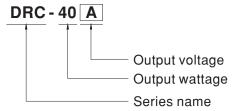
Applications

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

Description

DRC-40 is a 40W 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-40 accepts the universal input between 90VAC and 264VAC, and supplies 13.8VDC and 27.6VDC at output, respectively. With the efficiency up to 87%, 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 TTL open collector output for the standard model (via relay contact output as the optional model), to facilitate the system design.

■ Model Encoding



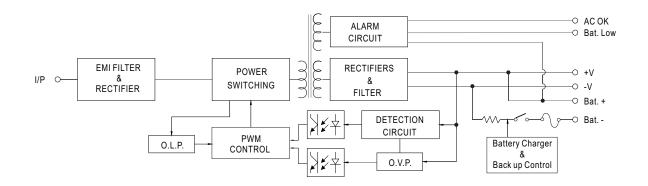


SPECIFICATION

OUTPUT NUMBER	MODEL		DRC-40A		DRC-40B		
RATED CURRENT RANGE		OUTPUT NUMBER	CH1	CH2	CH1	CH2	
CURRENT RANGE 0 ~ 2.9A	OUTPUT	DC VOLTAGE	13.8V	13.8V	27.6V	27.6V	
NATED POWER 40.02W 40.02		RATED CURRENT	1.9A	1A	0.95A	0.5A	
RIPPLE & NOISE (max.) Notez 120mVp-p 200mVp-p		CURRENT RANGE	0 ~ 2.9A		0 ~ 1.45A		
VOLTAGE ADJ. RANGE		RATED POWER	40.02W		40.02W		
VOLTAGE ADJ. RANGE		RIPPLE & NOISE (max.) Note.2	120mVp-p		200mVp-p		
LINE REGULATION		, ,			CH1:24 ~ 30V		
LOAD REGULATION		VOLTAGE TOLERANCE Note.3	±1.0%		±1.0%		
SETUP, RISE TIME		LINE REGULATION	±0.5%		±0.5%		
HOLD UP TIME (Typ.) 50ms/230VAC 10ms/115VAC at full load		LOAD REGULATION	±0.5%		±0.5%		
HOLD UP TIME (Typ.) 50ms/230VAC 10ms/115VAC at full load		SETUP, RISE TIME Note.4	400ms, 50ms/230VAC	800ms, 50ms/115VAC at full	load		
VOLTAGE RANGE 90 - 264VAC 127 - 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]							
FREQUENCY RANGE 47 - 63Hz		, , ,	90 ~ 264VAC 127 ~ 370	OVDC [DC input operation	possible by connecting AC/L(+), AC/N(-)]	
INPUT		FREQUENCY RANGE					
AC CURRENT (Typ.) 0.8A/115VAC 0.6A/230VAC INRUSH CURRENT (Typ.) COLD START 30A/115VAC 60A/230VAC	INPUT	EFFICIENCY (Typ.)					
INRUSH CURRENT (Typ.) COLD START 30A/115VAC 60A/230VAC OVERLOAD OVERLOAD 105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V Protection type : Shut down o/p voltage, re-power on to recover BATTERY CUT OFF 10±0.5V AC OK Open collector output, CONTACT : AC OK; CUT OFF : AC Fall ; max. rating : 50V/30mA Pattery LOW WORKING TEMP. WORKING HUMIDITY OPEN CONTACT : Battery ; CONTACT : Battery Low ; max. rating : 50V/30mA Battery low voltage : < 11V Battery low voltage : < 22V WORKING HUMIDITY TEMP. COEFFICIENT UBBATION 10 ~ 50°C, 10 ~ 95% RH TEMP. COEFFICIENT UBBATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes WITHSTAND VOLTAGE WITHSTAND VOLTAGE ISOLATION RESISTANCE ISOLATI							
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SAFETY & EMC (Note 5) SOLATION RESISTANCE I/P-O/P; I/P-FG, O/P-FG; 100M Ohms / 500VDC / 25°C / 70% RH		VIBRATION					
ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		SAFETY STANDARDS					
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supplies." (as available on http://www.meanwell.com) 6. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded	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 for Installation clearances:	are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Eludes set up tolerance, line regulation and load regulation. up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. Oply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed to the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power available on http://www.meanwell.com)				



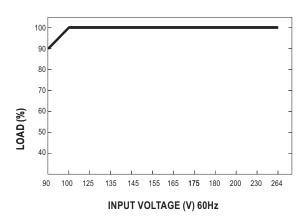
■ Block Diagram



■ Derating Curve

30VAC Input only 60 20 20 0 15 30 40 50 55 60 70 (VERTICAL) AMBIENT TEMPERATURE (°C)

■ Static Characteristics





■ 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.

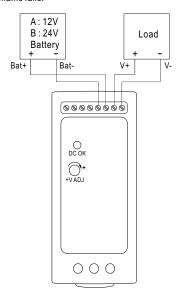


Fig 1.1 Suggested system connection

2. Alarm signal for AC OK and battery low

- (1) Alarm signal is sent out through "AC OK" & "Battery Low" pins. (TTL open collector output is provided for standard model, and relay contact output is provided as optional model.)
- (2) An external voltage source is required for this function. The maximum applied voltage is 50V and the maximum sink current is 30mA. Please refer to Fig 2.2.
- $(3) \ Table 2.1 \ explains \ the \ alarm \ function \ built \ in \ the \ power \ supply$

Function	Description	Output of alarm	
AC OK	The signal is "Low" when the power supply turns ON.	Low (0.3V max. at 30mA)	
ACOK	The signal turns to be "High" when the power supply turns OFF.	High or open (External applied voltage 50V max.)	
Battery Low	The signal is "Low" when the voltage of battery is under A:11V, B:22V.	Low (0.3V max. at 30mA)	
	The signal is "High" when the voltage of battery is above A:11V, B:22V.	High or open (External applied voltage 50V max.)	

Table 2.1 Explanation of alarm signal

AC OK (Battery low)

Pin6(Pin8) Short with output -V $$\operatorname{External}$$ voltage and R $$\operatorname{(The\ max.\ Sink\ is\ 30mA\ and\ 50V)}$}$

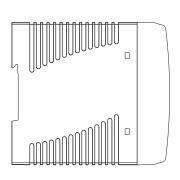
Fig 2.2 Internal circuit of AC OK (Battery Low), via TTL open collector

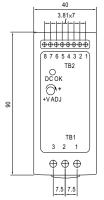


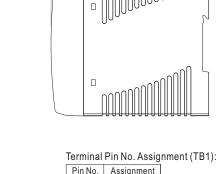
■ Mechanical Specification

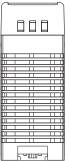
Case No.962A Unit:mm









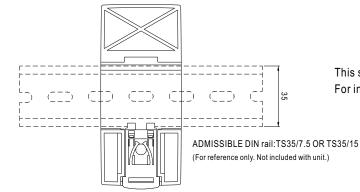


Pin No.	Assignment		
1	AC/L or DC+		
2	AC/N or DC-		
3	FG ÷		

Terminal Pin No. Assignment (TB2):

• ,							
Assignment	Pin No.	Assignment					
-V	4	Bat					
+V	5,6	AC OK					
Bat. +	7,8	Bat. Low					
	-V +V	-V 4 +V 5,6					

■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15. For installation details, please refer to the Instruction manual.

■ Installation Manual

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

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