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RAYCORE

Q3-S342 V1.1E

Specification of DIN Rail Power
Supply, 75W/DC48V, Metal Housing,
-30 to +70°C (SDR-75-48)

Part Number: APWD-MFSE-A7548-00

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- High efficiency 90% and low power dissipation
- 150% peak load capability
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty

Specifications

Model		APWD-MFSE-A7548-00 (SDR-75-48)		
Output	DC voltage	48V		
	Rated current	1.6A		
	Current range	0 ~ 1.6A		
	Rated power	76.8W		
	Peak current	2.34A		
	Peak power	Note.6	112.5W (3sec.)	
	Ripple & noise (max.)	Note.2	120mVp-p	
	Voltage ADJ. Range	48 ~ 55V		
	Voltage tolerance	Note.3	±1.0%	
	Line regulation	±0.5%		
	Load regulation	±1.0%		
	Setup, rise time	1500ms, 3000ms, 60ms/115VAC at full load 60ms/230VAC		
	Hold up time (Typ.)	80ms/230VAC 20ms/115VAC at full load		
Input	Voltage range	Note.7	88 ~ 264VAC 124 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)]	
	Frequency range	47 ~ 63Hz		
	Efficiency (Typ.)	90%		
	AC current (Typ.)	1.4A/115VAC	0.85A/230VAC	
	Inrush current (Typ.)	30A/115VAC	50A/230VAC	
	Leakage current	< 1mA/240VAC		



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Model		APWD-MFSE-A7548-00 (SDR-75-48)
PROTECTION	Overload	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover
		150 ~ 170% rated power, constant current limiting with auto-recovery within 3 seconds and shut down o/p voltage after 3 seconds, re-power on to recover
	Over voltage	56 ~65V
		Protection type : Shut down o/p voltage, re-power on to recover
Over temperature	100°C ±10°C (RTH2) detect on main of power switch Protection type : Shut down o/p voltage, re-power on to recover after temperature goes down	
Environment	Working TEMP.	-30 ~ +70°C (Refer to "Derating Curve")
	Working humidity	20 ~ 95% RH non-condensing
	Storage TEMP., humidity	-40 ~ +85°C, 10 ~ 95% RH
	TEMP. Coefficient	±0.03%/°C (0 ~ 60°C)
	Vibration	Component : 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting : Compliance to IEC60068-2-6
Safety & EMC (Note 4)	Safety standards	UL508, TUV EN60950-1, EAC TP TC 004 approved, design refer to GL ; (meet EN60204-1)
	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 EN55032 (CISPR32). EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020
EMC immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, EAC TP TC 020, SEMI F47 approved	
Others	MTBF	481.9K hrs min. MIL-HDBK-217F (25°C)
	Dimension	32*125.2*102mm (W*H*D)
	Packing	0.51Kg; 28pcs/15.3Kg/1.22CUFT
Note	<ol style="list-style-type: none"> 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. 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. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 3 seconds max., please refer to peak loading curves. Derating may be needed under low input voltage. Please check the derating curve for more details. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 	

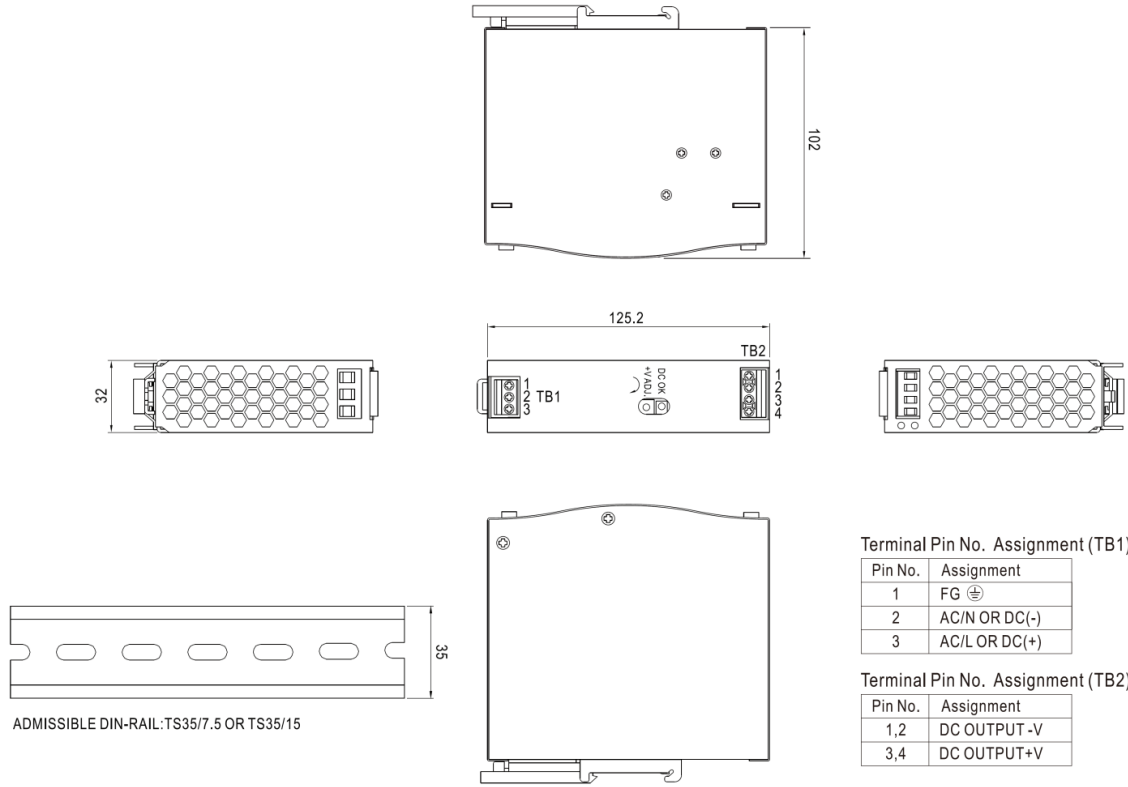
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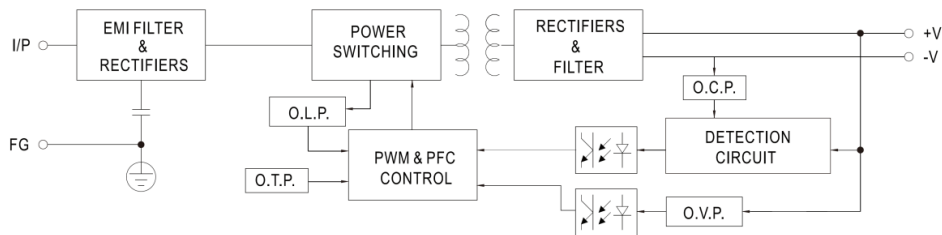
Mechanical Specification

Case No. Unit:mm

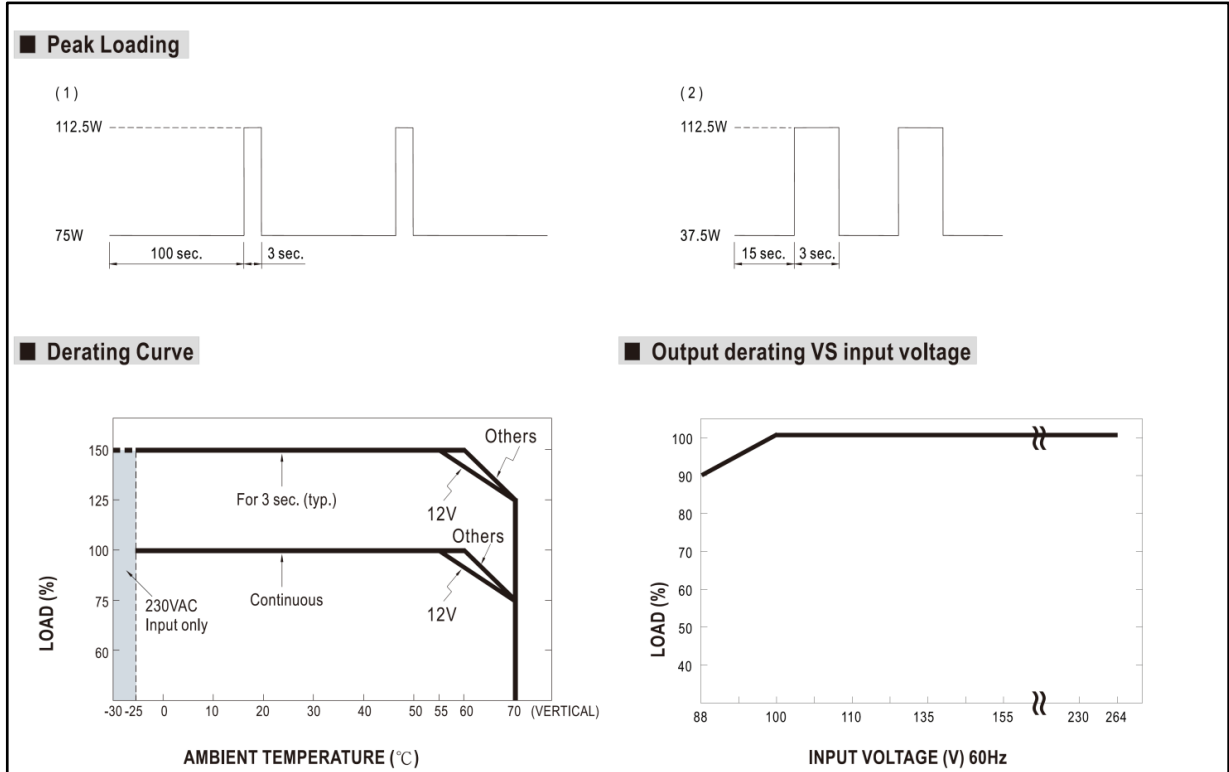


Block Diagram

fosc : 85KHz



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Ordering Information

Part Number	Description
APWD-MFSE-A7548-00	DIN Rail Power Supply, 75W/DC48V, Metal Housing, -30 to +70°C (SDR-75-48)

