





- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- 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
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

Specifications

Model			APWD-MFSD-A124	8-00 (SDR-120-48)
Output	DC voltage		48V	,
	Rated current		2.5A	
	Current range		0 ~ 2.5A	
	Rated power		120W	
	Peak current		3.75A	
	Peak power	Note.6	180W (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.)		20ms/230VAC	20ms/115VAC at full load
Input	Voltage range	Note.7	88 ~ 264VAC	124 ~ 370VDC
	Frequency range		47 ~ 63Hz	
	Power factor (Typ.)		0.93/230VAC	0.96/115VAC at full load
	Efficiency (Typ.)		90.5%	
	AC current (Typ.)		1.4A/115VAC	0.7A/230VAC
	Inrush current (Typ.)		35A/115VAC	70A/230VAC
	Leakage current		< 1mA/240VAC	



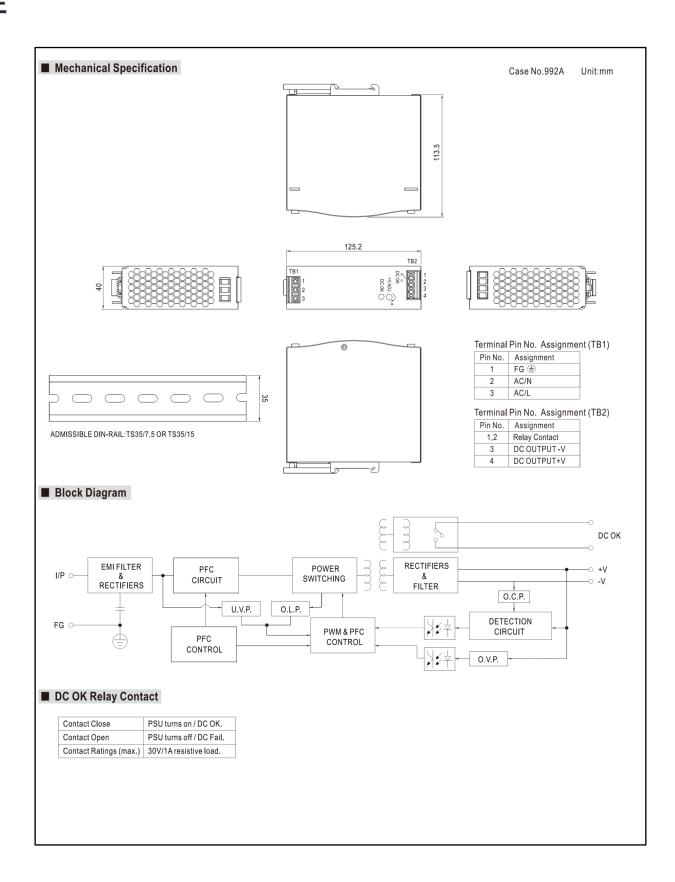
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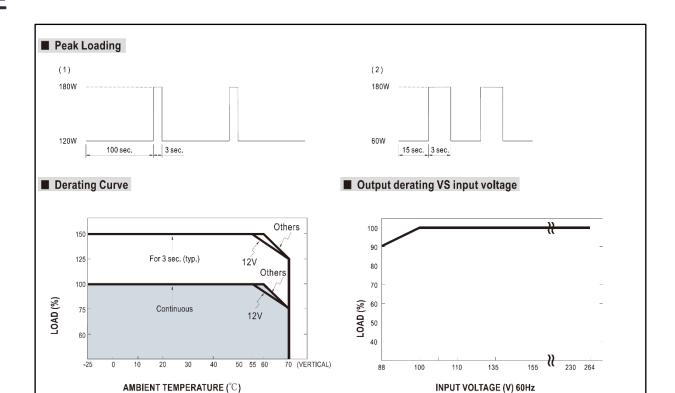
- Model		ADM/D MECD 413/0 00 (CDD 130 /0)		
Model		APWD-MFSD-A1248-00 (SDR-120-48)		
		Normally works within 110 ~ 150% rated output power for		
		more than 3 seconds and then shut down o/p voltage		
	Overload	>150% rated power, constant current limiting with auto-		
		recovery within 2 seconds and shut down o/p voltage		
		after 3 seconds		
Protection	Over voltage	56 ~65V		
		Protection type: Shut down o/p voltage, re-power on		
		to recover		
	Over temperature	95°C ±5°C (TSW) detect on heatsink of power switch		
		Protection type: Shut down o/p voltage, recovers		
		automatically after temperature goes down		
Function	DC ok realy contact ratings (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load		
	Working TEMP.	-25 ~ +70°C (Refer to "Derating Curve")		
	Working humidity	20 ~ 95% RH non-condensing		
	Storage TEMP., humidity	-40 ~ +85°C, 10 ~ 95% RH		
Environment	TEMP. Coefficient	±0.03%/°C (0 ~ 50°C)		
		Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each		
	VIBRATION	along X, Y, Z axes; Mounting: Compliance to IEC60068-		
		2-6		
	Safety standards	UL508, TUV EN60950-1, EAC TP TC 004 BSMI CNS14336-		
	Surety Starragras	1 approved; (meet EN60204-1)		
	Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC		
	vvitristaria voltage	OK:0.5KVAC		
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25℃/		
Safety & EMC		70% RH		
(Note 4)		Compliance to EN55011, EN55032 (CISPR32), EN61204-3		
	EMC emission	Class B, EN61000-3-2-3, EAC TP TC 020, CNS13438 Class		
		В		
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024,		
	EMC immunity	EN61000-6-2 (EN50082-2), EN61204-3, heavy industry		
		level, criteria A, EAC TP TC 020, SEMI F47, GL approved		
	MTBF	289.9K hrs min. MIL-HDBK-217F (25°C)		
Others	Dimension	40*125.2*113.5mm (W*H*D)		
	Packing	0.67Kg; 20pcs/14.4Kg/1.16CUFT		
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire			
	terminated with a 0.1uf & 47uf parallel capacitor.			
	3. Tolerance: Includes set up tolerance, line regulation and load regulation.			
	4. The power supply is considered a component which will be installed into a final			
N.L.	equipment. The final equipment must be re-confirmed that it still meets EMC directives.			
Note	5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power.			
	side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.			
	6. 3 seconds max., please refer to peak loading curves.			
	7. Derating may be needed under low input voltage. Please check the derating curve for			
	more details.			
	8. 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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Ordering Information

Part Number	Description			
APWD-MFSD-A1248-00	DIN Rail Power Supply, 120W/DC48V, Metal Housing, -25 to			
APVVD-IVIF3D-AIZ40-00	+70°C (SDR-120-48)			

