







- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption <0.75W
- 100% full load burn-in test
- 3 years warranty

#### **Specifications**

Model		APWD-MPSB-A2024-00 (MDR-	-20-24)
Output	DC voltage	24V	
	Rated current	1A	
	Current range	0 ~ 1A	
	Rated power	24W	
	Ripple & noise (max.) Note.2	150mVp-p	
	Voltage ADJ. Range	21.6 ~ 26.4V	
	Voltage tolerance Note.3	±1.0%	
	Line regulation	±1.0%	
	Load regulation	±1.0%	
	Setup, Rise Time Note.5	500ms, 30ms/230VAC	1000ms, 30ms/115VAC at
			full load
	Hold up time (Typ.)	50ms/230VAC	20ms/115VAC at full load
Input	Voltage range Note.7	85 ~ 264VAC	120 ~ 370VDC
	Frequency range	47 ~ 63Hz	
	Efficiency (Typ.)	84%	
	AC current (Typ.)	0.55A/115VAC	0.35A/230VAC
	Inrush current (Typ.)	COLD START 20A/115VAC	40A/230VAC
	Leakage current	< 1mA/240VAC	



## M E L

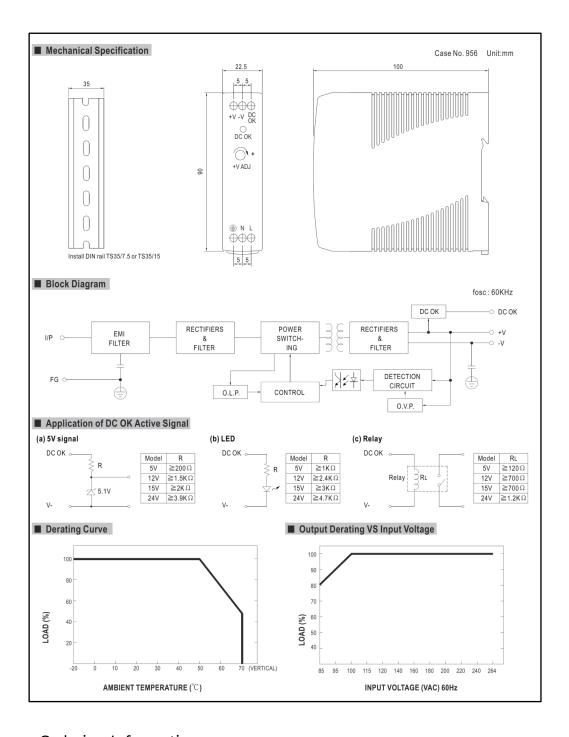
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Model		APWD-MPSB-A2024-00 (MDR-20-24)	
Protection		105 ~ 160% rated output power	
	Overload	Protection type : Constant current limiting, recovers	
		automatically after fault condition is removed	
	Over voltage	27.6 ~ 32.4V	
		Protection type: Shut down o/p voltage, re-power on to	
		recover	
Function	DC ok active signal (max.)	18 ~ 27V/20mA	
Environment	Working TEMP.	-20 ~ +70°C (Refer to "Derating Curve")	
	Working humidity	20 ~ 90% RH non-condensing	
	Storage TEMP., humidity	-40 ~ +85°C, 10 ~ 95% RH	
	TEMP. Coefficient	±0.03%/°C (0 ~ 50°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 EN62368-1,EAC TP TC 004, BSMI CNS14336-1, AS/NZS 62368.1 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% RF	
	EMC emission	Compliance to EN55011, EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020, CNS13438 Class B	
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-	
	EMC immunity	6-1, EN61204-3, light industry level, criteria A, EAC TP TC 020	
	MTBF	236.9K hrs min. MIL-HDBK-217F (25°C)	
Others	Dimension	22.5*90*100mm (W*H*D)	
	Packing	0.17Kg; 72pcs/13.2Kg/0.91CUFT	
Note	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: Includes set up tolerance, line regulation and load regulation.</li> <li>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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</li> <li>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).</li> </ol>		



# M E L B Y F



#### Ordering Information

Part Number	Description		
ADWD MDCD A2027 00	DIN Rail Power Supply, 20W/DC24V, Plastic Housing, -20 to +70°C		
APWD-MPSB-A2024-00	(MDR-20-24)		

