

Single Phase Industrial DIN RAIL Power Supply



FEATURE:

- Universal AC input/Full range
- High efficiency: 85%typ
- Built in active PFC function, PF>0.95(120&240W)
- Protection: Short circuit/Over load/
Over voltage/Over temperature
- Can be installed on DIN rail TS-35/7.5 or 15
- Compliance to UL 508(industrial control equipment)
- MTBF 100Khrs Min., MIL-HDBK-217F (25°C)
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

SPECIFICATIONS:

MODEL		YF-TDR075	YF-TDR120	YF-TDR240
INPUT	Voltage Range	90~260VAC(1φ) or 100~370VDC	90~260VAC(1φ) or 100~370VDC	90~260VAC(1φ) or 100~370VDC
	AC Current	2A/115VAC 1.2A/230VAC	3.3A/115VAC 2A/230VAC	3.5A/115VAC 1.8A/230VAC
	Frequency Range	47~63Hz		
	Efficiency	80%typ	85%typ	85%typ
	Power Factor	Without	PF>0.98/115VAC;PF>0.95/230VAC	PF>0.98/115VAC;PF>0.95/230VAC
	Inrush Current	15Atyp/115VAC;30Atyp/230VAC(At cold state)		
	Leakage Current	1mA max/240VAC	3.5mA max/240VAC	3.5mA max/240VAC
OUTPUT	DC Voltage	23.9~24.2VDC		
	Rated Current	3.2A	5A	10A
	Current Range	0~3.2A	0~5A	0~10A
	Rated Power	75W	120W	240W
	Ripple Noise	80mVp-p		
	Voltage ADJ Range	22~28V		
	Voltage Tolerance	±1.0%		
	Line Regulation	±0.5%		
	Load Regulation	±0.5%		
PROTECTION	Over Load Protection	105~130% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed		
	Over Voltage Protection	29~36V		30~36V
	Over Temperature Protection	100°C+/-5°C (PTC) Detect inside of transformer Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		
ENVIRONMENT	Working Temperature	-10~+60°C (Refer to output load derating curve)		-10~+70°C (Refer to output load derating curve)
	Working Humidity	20~90% RH non-condensing		
	Storage TEMP., Humidity	-20~+85°C, 10~95% RH		
	TEMP. Coefficient	±0.03% (0~50°C)		
	Vibration	10~500Hz, 2G 10min/1cycle, 60min. each along X, Y, Z axes		
SAFETY AND EMC	Safety Standards	Compliance to UL508, TUV EN60950-1		
	Withstand Voltage	I/P-O/P:3KVAC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC		
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M Ohms/500VDC		
	EMI Conduction& Radiation	Compliance to EN55011(CISPR11), EN55022(CISPR22) Class B		
	Harmonic Current	Compliance to EN61000-3-2,3		
OTHERS	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2(EN50082-2) Heavy industry level, criteria A		
	MTBF	120Khrs min. MIL-HDBK-217F (25°C)		
	Dimension(W * H * D)	53 * 125.2 * 100.5mm	65 * 125.2 * 100.5mm	124 * 125.2 * 100.5mm
Packing	0.55Kg;40pcs/22kg/1.9CUFT	0.65Kg;20pcs/13kg/1.1CUFT	1.1Kg;12pcs/13kg/1.2CUFT	

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 final equipment. The final equipment must be re-confirmed that it still meets EMC directives.