

Block Up-Converter

AC to DC Power Supply

Product Features

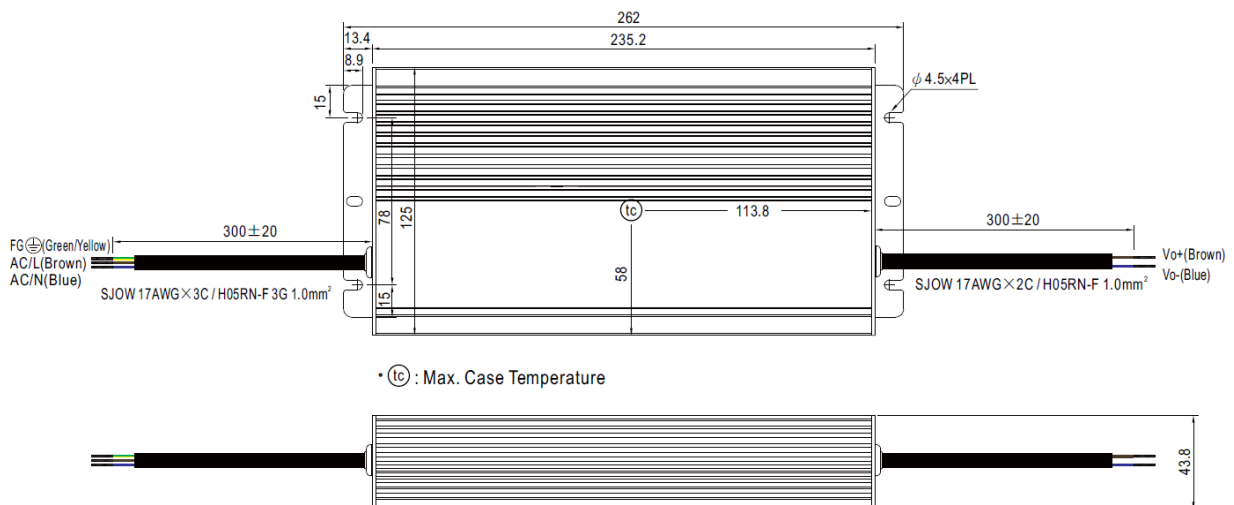
- Universal AC input / Full range(up to 305VAC}
- Built-in active PFC function
- High efficiency up to 95%
- Fanless design, cooling by free air convection
- -55~+65°C wide operating range
- Aluminum case and filling with heat-conducted silicone
- IP65 design.
- Meet 6KV surge immunity level
- Withstand 10G vibration test
- Operating altitude up to 5000 meters (Note.7}
- Protections: Short circuit / Overload / Over voltage/Over temperature
- 6 years warranty



Typical Applications

- Outdoor telecommunication equipment aritime
- Outdoor electronic signage and billboard
- Petroleum plant or mine shaft facility

Mechanical Diagram



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Specifications

Output	DC Voltage	48V
	Rated Current	10A
	Rated Power	480W
	Ripple & Noise (Max.) Note.2	250mVp-p
	Voltage Adj. Range Note.5	Adjusted for A-type only (via built-in potentiometer) 40.8 ~ 50.4V
	Current Adj. Range	Adjusted for A-type only (via built-in potentiometer) 5 ~ 10A
	Voltage Tolerance Note.3	+1.0%
	Line Regulation	+0.5%
	Load Regulation	+0.5%
	Setup, Rise Time Note.4	500ms, 80ms 115VAC/230VAC
	Hold Up Time (Typ.)	16ms 115VAC/230VAC
	Input	Voltage Range Note.5
Frequency Range		47 ~ 63Hz
Power Factor (Typ.)		PF≥0.98/115VAC, PF≥0.97/230VAC, PF≥0.95/277VAC at full load
Efficiency (Typ.)		94%
AC Current (Typ.)		5A / 115VAC 2.45A / 230VAC 2A/277VAC
Inrush Current(Typ.)		COLD START 35A at 230VAC
Leakage Current		<0.75mA / 277VAC
Protection	Over Current	105 ~ 125% Constant current limiting, recovers automatically after fault condition is removed
	Short Circuit	Constant current limiting, recovers automatically after fault condition is removed
	Over Voltage	27 ~ 33V Shut down output voltage, re-power on to recover
	Over Temperature	Shut down output voltage, re-power on to recover
Environment	Working Temp.	-55 ~ +65°C (Refer to "Derating Curve")
	Working Humidity	20 ~ 95% RH non-condensing
	Storage Temp, Humidity	-60 ~ +80°C, 10 ~ 95% RH -condensing
	Temp. Coefficient	+0.02%/ °C (0~60°C)
	Vibration	20 ~ 500Hz, 10G 12min./1cycle, period for 72min. each along X, Y, Z axes
Safety & EMC	Safety Standards Note.8	UL60950-1, IP65 for HEP-480 approved ; design refer to TUV EN60950-1
	Withstand Voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
	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) Class B, EN61000-3-2,-3
	Emc Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level (surge 6KV), criteria A
Others	Mtbf	89.8K hrs min. MIL-HDBK-217F (25 °C)
	Dimension	262*125*43.8mm (L*W*H)
	Packing	2.8Kg;4pcs/12.2Kg/0.58CUFT