

WRUHD - 2500

2500W Conduction Cooling Switching Supply

LOREME

■ Features

- Slim and Low profile (60mm)
- Fanless and conduction-cooled design
- Built-in active PFC function
- 30~+70°C working temperature
- Output voltage and constant current level programmable
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote ON-OFF control
- DC OK active signal
- Operating altitude up to 5000 meter
- LED indicator for power on

■ Applications

- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipment or apparatus
- Test and measurement instrument
- Laser related machine
- Charging related equipment



■ Description

WRUHD-2500 is a 2500W single-output slim type power supply with 60mm of low profile design. Adopting the full range 90~264VAC input, the entire series provides an output voltage line of 24V and 48V. In addition to the high efficiency up to 96%, that the whole series operates from -30 °C ~ 70 °C under air convection without fan. WRUHD-2500 has the complete protection functions and 2G anti-vibration capability

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SPECIFICATION

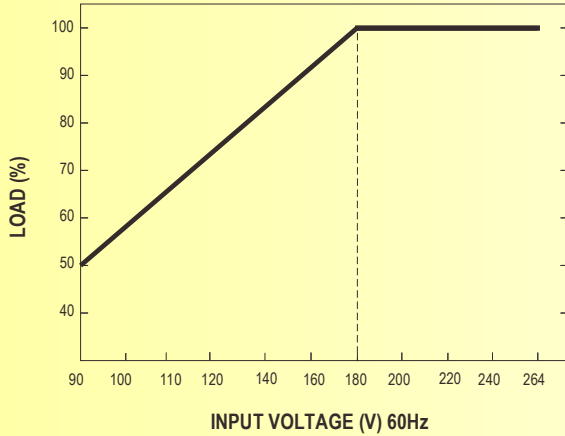
MODEL		WRUHD-2500-24	WRUHD-2500-48	
OUTPUT	DC VOLTAGE	24V	48V	
	RATED CURRENT	104.2A	52.1A	
	RATED POWER (convection)	2500.8W	2500.8W	
	RIPPLE & NOISE (max.)	300mVp-p	480mVp-p	
	VOLTAGE ADJ. RANGE	By built-in potentiometer, SVR 24~28.8V		
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±0.5%	
	SETUP, RISE TIME	1800ms, 60ms/230VAC at full load		
	HOLD UP TIME (Typ.)	16ms/230VAC at 75% load	10ms/230VAC at full load	
INPUT	VOLTAGE RANGE	90 ~ 264VAC 250 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF ≥ 0.95/230VAC at full load		
	EFFICIENCY (Typ.)	95%	96%	
	AC CURRENT (Typ.)	14.3A/230VAC		
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC		
	LEAKAGE CURRENT	<0.75mA / 240VAC		
PROTECTION	OVERLOAD	105 ~ 115% rated output power Protection type : Constant current limiting, unit will shutdown after 5 sec. re-power on to recover.		
	OVER VOLTAGE	30 ~ 35V	60 ~ 67V	
	OVER TEMPERATURE	Protection type : Shut down O/P voltage, recovers automatically after temperature goes down		
FUNCTION	OUTPUT VOLTAGE PROGRAMMABLE(PV)	Adjustment of output voltage is allowable to 50 ~ 120% of nominal output voltage		
	OUTPUT CURRENT PROGRAMMABLE(PC)	Adjustment of constant current level is allowable to 20 ~ 100% of rated current.		
	REMOTE ON/OFF CONTROL	Power ON : Short circuit Power OFF : Open circuit		
	AUXILIARY POWER	12V@0.4A tolerance ±0%, ripple 150mVp-p		
	DC-OK SIGNAL	The TTL signal out, PSU turn on = 4.5 ~ 5.5V ; PSU turn off = -0.5 ~ 0.5V.		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85 °C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50 °C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25 °C / 70%RH		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted	EN55032	Class B
		Radiated	EN55032	Class A
		Harmonic Current	EN61000-3-2	Class A
		Voltage Flicker	EN61000-3-3	----
	EMC IMMUNITY	EN55024 , EN61000-6-2		
		Parameter	Standard	Test Level / Note
		ESD	EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact
		Radiated	EN61000-4-3	Level 3
		EFT / Burst	EN61000-4-4	Level 3
		Surge	EN61000-6-2	2KV/Line-Line 4KV/Line-Earth
		Conducted	EN61000-4-6	Level 3
		Magnetic Field	EN61000-4-8	Level 4
Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	166.12K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	310*140*60mm (L*W*H)		

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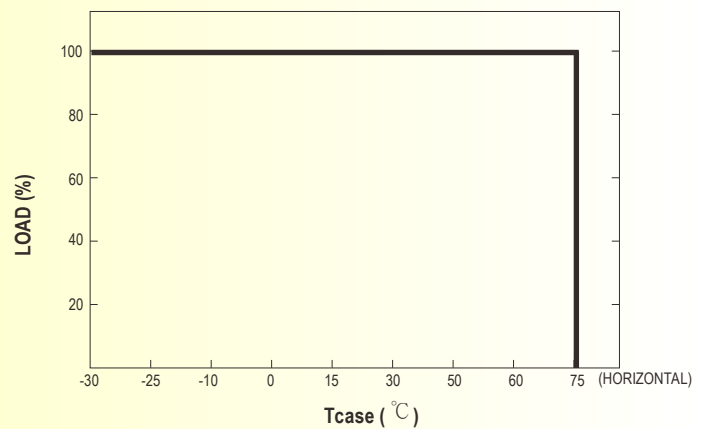
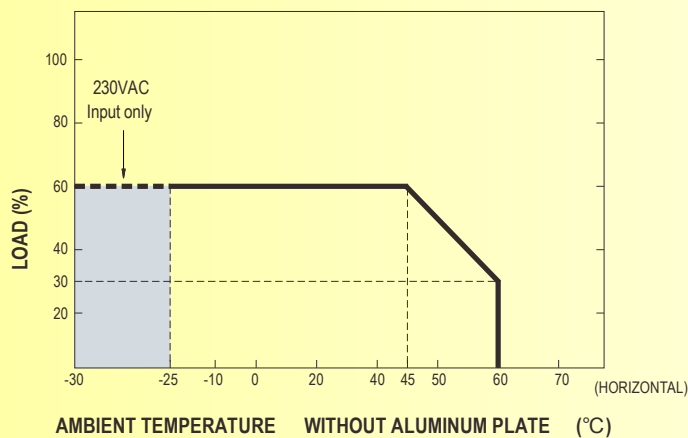
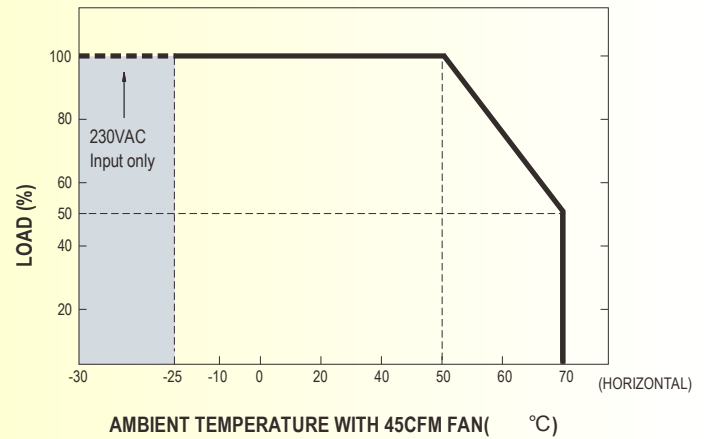
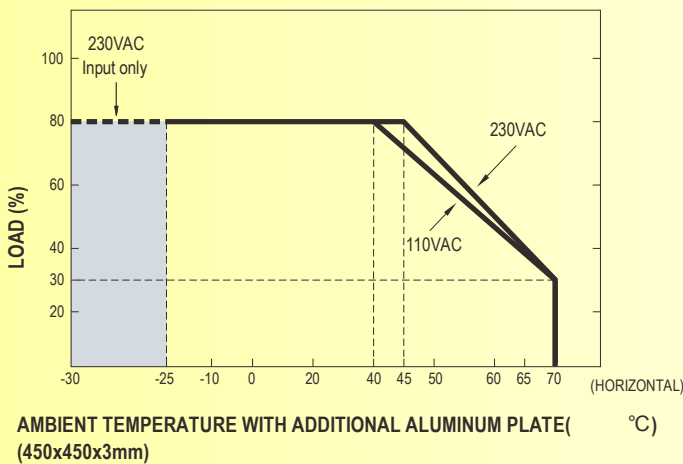
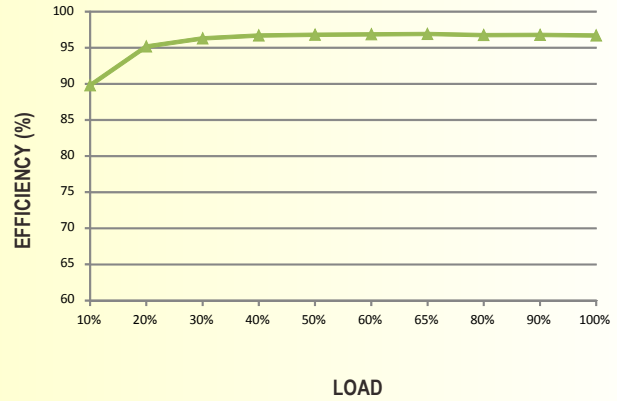
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■ STATIC CHARACTERISTIC



■ EFFICIENCY VS LOAD

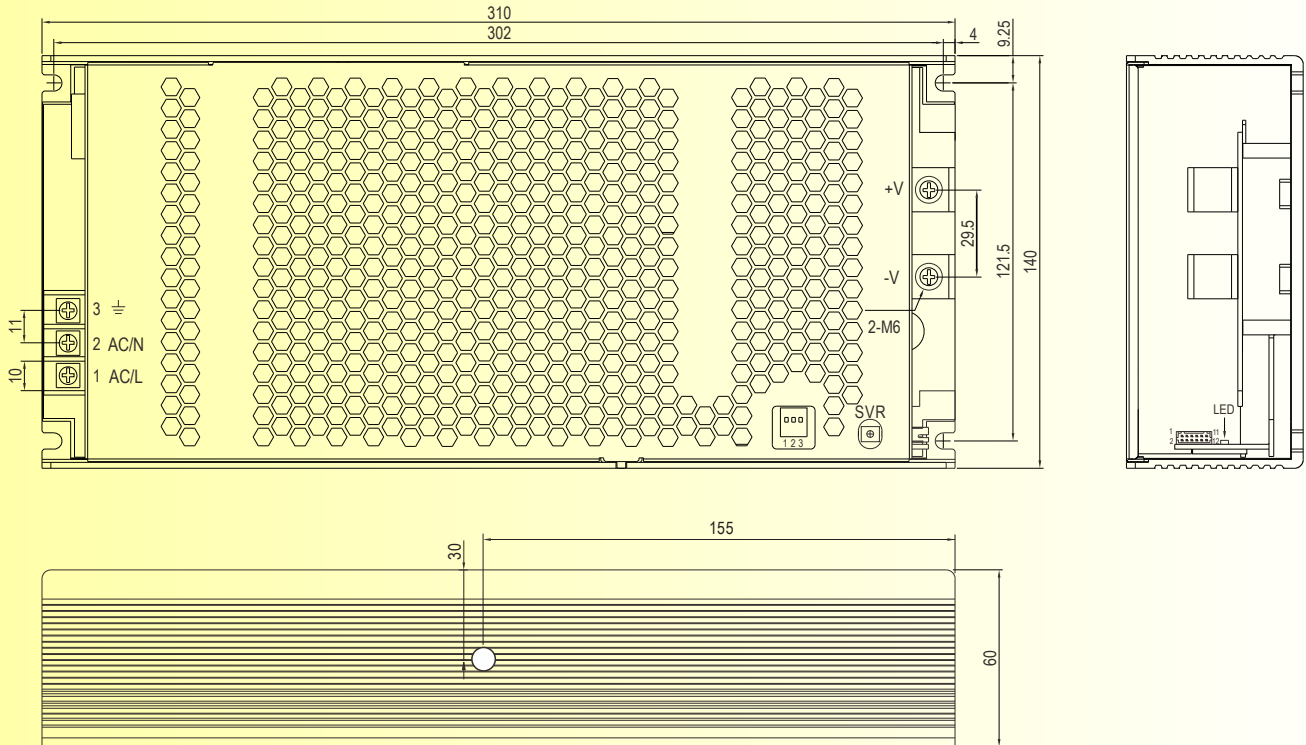


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MECHANICAL SPECIFICATION



Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", WRUHD-2500 can be installed onto an aluminum plate (or the cabinet of the same size)
The aluminum plate must have an even and smooth surface (or coated with thermal grease)

