



Dimension

L	W	H	
460	211	83.5(2U)	mm
18.1	8.3	3.29(2U)	inch



■ Features

- 3 ψ 3-wire / Δ 196~305VAC or 3 ψ 4-wire / Y 340~530VAC wide input range
- Built-in active PFC function
- High efficiency up to 91%
- Forced air cooling by built-in DC fan
- Output voltage and constant current level programmable
- Active current sharing up to 20000W (3+1)
- Built-in remote ON-OFF control / Remote sense / Auxiliary power / Alarm signal
- Protections: Short circuit / Overload / Over voltage / Over temperature / Fan fail
- 5 years warranty

■ Certificates

- Safety: UL/EN/IEC 60950-1
- EMC: EN 55022 / 55024

■ Applications

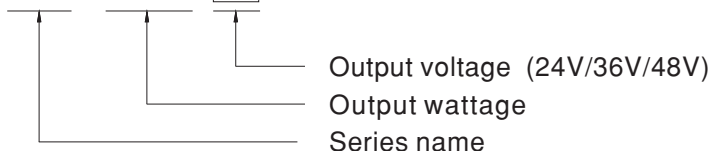
- Factory control or automation apparatus
- Test and measurement instrument
- Laser related machine
- Burn-in facility
- RF application
- Electric scooter or vehicle charger station
- Constant current source

■ Description

RST-5000 is a 5KW single output enclosed type AC/DC power supply. This series operates for the wide range three phase AC input (3 phase 3 wire / Δ 196~305VAC or 3 phase 4 wire / Y 340~530VAC) and offers the models with the DC output mostly demanded from the industry. Each model is cooled by the built-in fan with fan speed control, working for the temperature up to ,70°C. Moreover, RST-5000 provides vast design flexibility by equipping various built-in functions such as the output programming, active current sharing, remote ON-OFF control, auxiliary power, etc.

■ Model Encoding

RST - 5000 - 24



SPECIFICATION

MODEL		RST-5000-24	RST-5000-36	RST-5000-48	
OUTPUT	DC VOLTAGE	24V	36V	48V	
	RATED CURRENT	200A	138A	105A	
	CURRENT RANGE	0 ~ 200A	0 ~ 138A	0 ~ 105A	
	RATED POWER	4800W	4968W	5040W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	23.5 ~ 28.8V	35 ~ 43.2V	47 ~ 57.6V	
		Can be adjusted via built-in potentiometer			
	VOLTAGE TOLERANCE Note.3	± 1.0%	± 1.0%	± 1.0%	
	LINE REGULATION	± 0.5%	± 0.5%	± 0.5%	
	LOAD REGULATION	± 0.5%	± 0.5%	± 0.5%	
SETUP, RISE TIME	2200ms, 80ms at full load				
HOLD UP TIME (Typ.)	20ms / 230VAC at 75% load 14ms / 230VAC at full load				
INPUT	VOLTAGE RANGE	3 ϕ 3-wire / Δ 196 ~ 305VAC or 3 ϕ 4-wire / Y 340 ~ 530VAC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	0.95/230VAC(400VAC) at full load			
	EFFICIENCY (Typ.)	89%	90%	91%	
	AC CURRENT (Typ.)	15A/230VAC(3 ϕ 3-wire / Δ)	9A/400VAC(3 ϕ 4-wire / Y)		
	INRUSH CURRENT (Typ.)	75A/230VAC(3 ϕ 3-wire / Δ)	50A/400VAC(3 ϕ 4-wire / Y)		
	LEAKAGE CURRENT	<3.5mA / Δ 305VAC(Y 530VAC)			
PROTECTION	OVERLOAD	100 ~ 112% rated output power User adjustable continuous constant current limiting or constant current limiting with delay shutdown after 5 seconds, re-power on to recover			
	OVER VOLTAGE	30 ~ 33.6V	45 ~ 50.4V	60 ~ 67.2V	
		Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	REMOTE SENSE	Compensate voltage drop on the load wiring up to 0.3V. Please refer to the Function Manual.			
	CURRENT SHARING	Up to 20000W or (3+1) units. Please refer to the Function Manual.			
	OUTPUT VOLTAGE PROGRAMMABLE	Adjustment of output voltage is allowable to between 20 ~ 120% of nominal output voltage. Please refer to the Function Manual.			
	CONSTANT CURRENT LEVEL PROGRAMMABLE	Adjustment of constant current level is allowable to between 20 ~ 100% of rated current. Please refer to the Function Manual.			
	AUXILIARY POWER(AUX)	12V@0.1A(Only for Remote ON-OFF control)			
	REMOTE ON-OFF CONTROL	Please refer to the Function Manual.			
	ALARM SIGNAL OUTPUT	AC fail, DC OK, fan fail, OTP. Please refer to the Function Manual.			
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 (Note 6)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved			
	WITHSTAND VOLTAGE Note.4	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE Note.4	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 (CISPR32) / EN55011 (CISPR11)	Class A	
		Radiated	EN55032 (CISPR32) / EN55011 (CISPR11)	Class A	
		Harmonic Current	EN61000-3-2	-----	
		Voltage Flicker	EN61000-3-3	-----	
	EMC IMMUNITY	EN55024, EN61204-3, 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		EN61000-4-5	Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Line		
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	44.1K hrs min. Telcordia SR-332 (Bellcore) ; 34.6K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	460*211*83.5mm (L*W*H)			
	PACKING	10Kg; 1pcs/10.1Kg/0.85CUFT			
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at Δ230VAC(Y 400VAC) input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. During withstand voltage and isolation resistance testing, the screw "A" shall be temporarily removed, and shall be installed back after the testing. There is high possibility to trigger the floating over voltage protection when PV voltage is trimmed from a high voltage level to a lower voltage level at light load or no load condition. It is suggested that turn off the power supply and set PV voltage to the lowest level, then adjust output voltage to a desired value. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 720mm*360mm metal plate with 1mm of thickness. 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." (as available on http://www.meanwell.com) 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). 				