



Dimension

L	*	W	*	H	
540	*	424	*	83.5(2U)	mm
21.3	*	16.7	*	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 (1+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-10000 is a 10KW 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-10000 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 - 10000- 24

Output voltage (24V/36V/48V)
Output wattage
Series name

SPECIFICATION

MODEL		RST-10000-24	RST-10000-36	RST-10000-48
OUTPUT	DC VOLTAGE	24V	36V	48V
	RATED CURRENT	400A	276A	210A
	CURRENT RANGE	0 ~ 400A	0 ~ 276A	0 ~ 210A
	RATED POWER	9600W	9936W	10080W
	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%
INPUT	SETUP, RISE TIME	2200ms, 80ms at full load		
	HOLD UP TIME (Typ.)	20ms / 230VAC at 75% load 14ms / 230VAC at full load		
	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.)	30A/230VAC(3 ϕ 3-wire / Δ) 18A/400VAC(3 ϕ 4-wire / Y)		
	INRUSH CURRENT (Typ.)	150A/230VAC(3 ϕ 3-wire / Δ) 100A/400VAC(3 ϕ 4-wire / Y)		
PROTECTION	LEAKAGE CURRENT	<7mA / Δ 305VAC(Y 530VAC)		
	OVERLOAD(OLP)	100 ~ 112% rated output power		
		User selectable 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
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover		
FUNCTION	Shut down o/p voltage, recovers automatically after temperature goes down			
	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 (1+1) units. Please refer to the Function Manual.		
	AUXILIARY POWER	12V@0.1A(Only for Remote ON/OFF control)		
	REMOTE ON-OFF CONTROL	By electrical signal or dry contact Power ON:open Power OFF:short. 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.		
	ALARM SIGNAL OUTPUT	AC fail, DC OK, fan fail, OTP. Please refer to the Function Manual.		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	± 0.03%/℃ (0 ~ 50℃)		
	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℃/ 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	50K hrs min. Telcordia SR-332 (Bellcore) ; 17K hrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	540*424*83.5mm (L*W*H)		
	PACKING	23.5Kg; 1pcs/23.5Kg/2.82CUFT		