



Features:

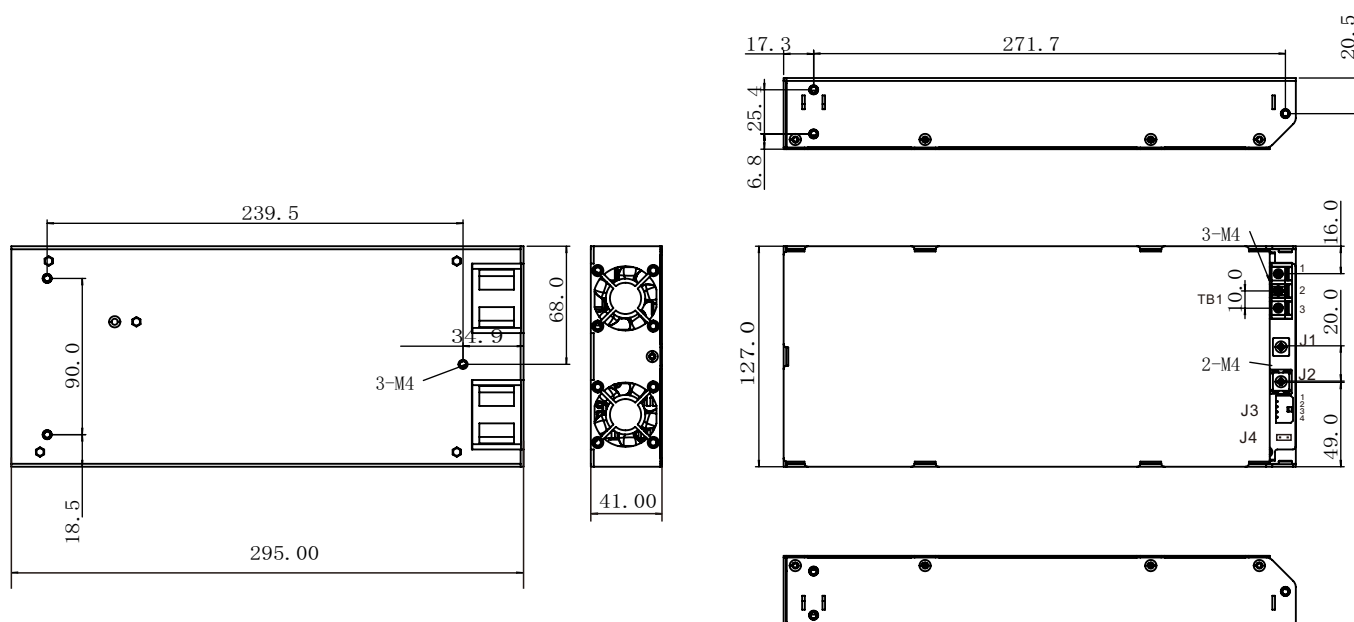
- Universal AC input
- Built in active PFC function
- High efficiency up to 90%
- Built in DC fan for forced cooling
- Remote control
- Protections: Short circuit / Overload / Over circuit
Over voltage/Over temperature
- Spray moisture-proof agent
- 3 years warranty

Specification

MODEL		SCMF2000-24		SCMF2000-48
INPUT	VOLTAGE RANGE note4	90~264VAC		
	FREQUENCY RANGE	47~63Hz		
	POWER FACTOR(Typ.)	0.95/220VAC		
	EFFICIENCY	90%		92%
	AC CURRENT(Typ.)	15A/220VAC		
	INRUSH CURRENT	40A/220VAC		
	LEAKAGE CURRENT	<3.5mA/240VAC		
OUTPUT	DC VOLTAGE	24V		48V
	VOLTAGE RANGE	23~25V Adj.		47~49V Adj.
	RATED CURRENT	84A		42A
	CURRENT RANGE	0~84A		0~42A
	RATED POWER	2016W		2016W
	RIPPLE&NOISE (max.) note 2	240mVp-p		240mVp-p
	VOLTAGE TOLERANCE note3	≤±1%		≤±1%
	LINE REGULATION	≤±1%		≤±1%
	LOAD REGULATION	≤±2%		≤±2%
	SETUP、RISE TIME	3000ms,100ms/220VAC(At full load)		
	HOLD UP TIME(Typ.)	10ms/220VAC(At full load)		
PROTECTION	OVER LOAD	Protection type: Automatic recovery after abnormal load removal		
	SHORT CIRCUIT	Protection type: Hiccup mode, recovers automatically after fault condition is removed.		
	OVER CIRCUIT	Protection type: Hiccup mode, recovers automatically after fault condition is removed.		
	OVER VOLTAGE	30~35V		55~60V
	OVER TEMPERATURE	Turn off the output voltage and automatically restore after the temperature drops		
FUNCTION	AUXILIARY POWER SUPPLY	5V @ 0.5A		
	REMOTE CONTROL	Power on: Short circuit ; Power off: Open circuit, please refer to the function manual		
ENVIRONMENT	WORKING TEMP.	-20~ +60℃ (Refer to "Derating curve")		
	WORKING HUMIDITY	20~90% RH non-condensing		
	STORAGE TEMP.,HUMIDITY	-40~+85℃, 10~95% RH		
	TEMP. COEFFICIENT	±0.02%/℃ (0 ~ 50℃)		
	VIBRATION	5~9Hz, amplitude 3.5mm, 9~200Hz, acceleration 10m/s, 3 axes, sweep frequency vibration 5 times in each direction (3 * 50 minutes), power supply not damaged.		
Safety and electromagnetic compatibility (note 5)	Safety standards	UL62368-1, CSA C22.2 No. 62368-1, TUV BS EN/EN62368-1, BSMI CNS14336-1, AS/NZS62368.1, EAC TP TC 004design reference		
	Isolation resistance	I/P-O/P: 3KVac : 100MΩ / 500Vdc / 25℃ / 70%RH		
		I/P-FG: 2KVac 100MΩ / 500Vdc / 25℃ / 70%RH		
		O/P-FG: 0.5KVac 100MΩ / 500Vdc / 25℃ / 70%RH		
	Electromagnetic compatibility emission	Parameter	Standard	Test Level / Note
		Conducted	BS EN/EN55032(CISPR32)	Class A
		Radiated	BS EN/EN55032(CISPR32)	Class A
		Harmonic Current	BS EN/EN61000-3-2	Class A
		Voltage Flicker	BS EN/EN61000-3-3	-----
	Electromagnetic compatibility immunity	BS EN/EN55035, BS EN/EN61000-6-2, BSMI CNS13438		
		Parameter	Standard	Test Level / Note
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact
		Radiated	BS EN/EN61000-4-3	Level 3
		EFT/Burst	BS EN/EN61000-4-4	Level 4
		Surge	BS EN/EN61000-4-5	Level 4, 4KV/Line-Earth ;2KV/Line-Line
		Conducted	BS EN/EN61000-4-6	Level 3
		Magnetic Field	BS EN/EN61000-4-8	Level 4
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods

OTHERS	MTBF	100Khr
	DIMENSION	295*127*41mm (L*W*H)
	PACKING	
NOTE	<ol style="list-style-type: none">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. Under low voltage input conditions, a reduced output is required. Please refer to the output reduction curve diagram for details.5. 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 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives.6. When the altitude exceeds 2000 meters (6500 feet), the ambient temperature of fanless models decreases at a rate of every 3.5 °C/1000 meters, while the ambient temperature of fanless models decreases at a rate of every 5 °C/1000 meters.	

Mechanical specification

**NOTE:**

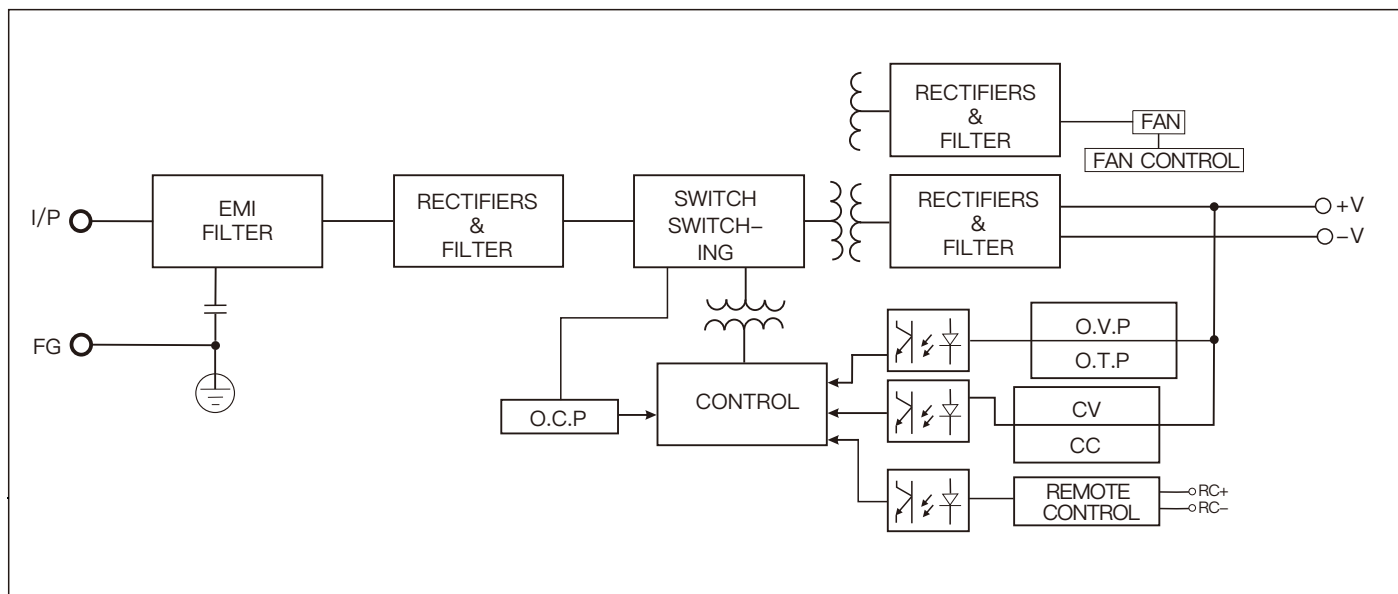
Unit: mm

TOL: ±1.00

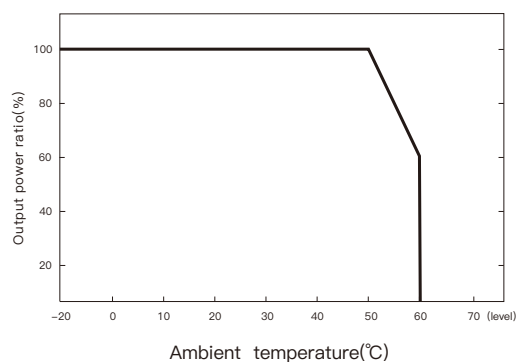
J4 two pin with short-circuit cap, short-circuit power supply has output;
Only one control power switch can be selected from the J3 and J4 terminals;

	Pin No.	Assignment	Assignment description
TB1	1	FG	Protect ground
	2	AC/L	AC input live line
	3	AC/N	AC input null line
J1		DC output +V	Output terminal
J2		DC output -V	Output terminal
J3	1	ON-OFF	By electronic switch or pin 1 (Remote ON-OFF) and pin 4 The dry contact between (– S) opens or closes the power supply, short circuit: electric Power on, open circuit: power off
	2	5V-AUX	The auxiliary output voltage for pin3 (G-AUX) is 4.6~5.25V, maximum load current is 0.5A, this output terminal has redundant connections Residual diodes, and not controlled by ON/OFF signals
	3	G-AUX	The auxiliary output voltage GND is isolated from the main output (+V&– V) in the signal circuit
	4	–S	The negative pole of the enable switch is connected to the negative pole of the main circuit output through a 10R resistor
J4		ON-OFF	Two pins with short-circuit cap, short-circuit power supply has output

Block diagram



Derating curve



Derating curve

