

900~1200W Parallel Type With PFC Function

**SCP-1K2 series**



■ Features :

- AC 180~260VAC input
- PF>0.98@ 230VAC
- Protections: Short circuit/ Overload/ Over voltage/ Over temperature
- Built in remote sense function
- Built-in remote ON-OFF control
- Power good signal
- With parallel function(N+1)
- Can adjust from 20~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- 3 years warranty

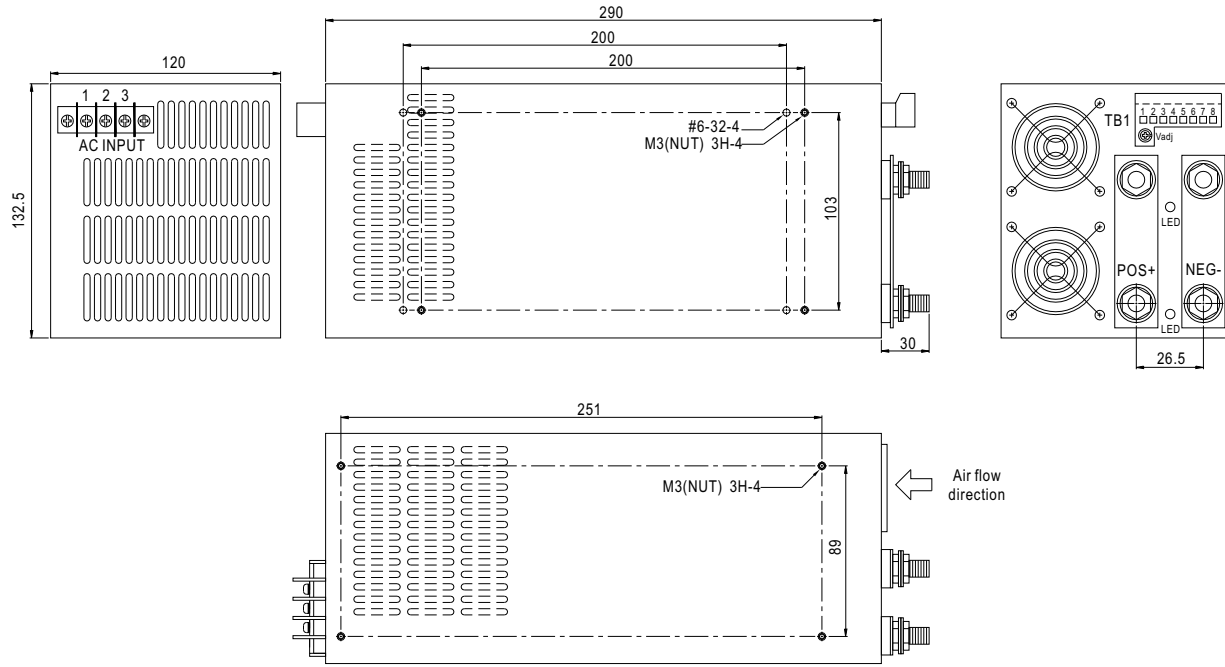


**SPECIFICATION**

ORDER NO.	SCP-1K2-05	SCP-1K2-09	SCP-1K2-12	SCP-1K2-15	SCP-1K2-18	SCP-1K2-24	SCP-1K2-36	SCP-1K2-48	SCP-1K2-60	
<b>OUTPUT</b>	<b>SAFETY MODEL NO.</b>	1K2S-P005	1K2S-P009	1K2S-P012	1K2S-P015	1K2S-P018	1K2S-P024	1K2S-P036	1K2S-P048	1K2S-P060
	<b>DC VOLTAGE</b>	5V	9V	12V	15V	18V	24V	36V	48V	60V
	<b>RATED CURRENT</b>	200A	133A	100A	80A	66.6A	50A	33.3A	24A	20A
	<b>CURRENT RANGE</b>	0 ~ 200A	0 ~ 133A	0 ~ 100A	0 ~ 80A	0 ~ 66.6A	0 ~ 50A	0 ~ 33.3A	0 ~ 24A	0 ~ 20A
	<b>RATED POWER</b>	1000W	1200W	1200W	1200W	1200W	1200W	1200W	1152W	1200W
	<b>RIPPLE &amp; NOISE (max.) Note.2</b>	100mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	360mVp-p	480mVp-p	500mVp-p
	<b>VOLTAGE ADJ. RANGE</b>	±3.0% Typical adjustment by potentiometer 20%~100% adjustment by 1~5VDC external control								
	<b>VOLTAGE TOLERANCE Note.3</b>	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	<b>LINE REGULATION</b>	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
<b>LOAD REGULATION</b>	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
<b>SETUP, RISE, HOLD TIME</b>	500ms, 50ms, 16ms at full load									
<b>INPUT</b>	<b>VOLTAGE RANGE</b>	180 ~ 260VAC 260 ~ 370VDC see the derating curve								
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz								
	<b>POWER FACTOR</b>	>0.98 / 230VAC								
	<b>EFFICIENCY (Typ.)</b>	80%	82%	84%	85%	86%	89%	89%	90%	90%
	<b>AC CURRENT</b>	10A / 230VAC								
	<b>INRUSH CURRENT (max.)</b>	60A / 230VAC								
	<b>LEAKAGE CURRENT (max.)</b>	3.5mA / 240VAC								
<b>PROTECTION</b>	<b>OVER LOAD Note. 4</b>	105 ~ 140% rated output power Protection type : Current limiting, delay shut down o/p voltage, re-power on to recover								
	<b>OVER VOLTAGE</b>	110 ~ 135% Follow to output set up point Protection type : Shut down o/p voltage, re-power on to recover								
	<b>OVER TEMPERATURE</b>	>100°C / measure by heat sink, near transformer Protection type : Shut down o/p voltage, recovers automatically after temperature goes down								
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-20 ~ +65°C (Refer to output load derating curve)								
	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing								
	<b>STORAGE TEMP., HUMIDITY</b>	-20 ~ +85°C, 10 ~ 95% RH								
	<b>TEMP. COEFFICIENT</b>	±0.04% / °C (0 ~ 50°C)								
	<b>VIBRATION</b>	10 ~ 200Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
<b>SAFETY &amp; EMC (Note. 5)</b>	<b>SAFETY STANDARDS</b>	UL60950, TUV EN60950-1 Approved								
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG, OP/FG:100M Ohms / 500VDC								
	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 (CISPR22) class A								
	<b>HARMONIC CURRENT</b>	Compliance to EN61000-3-2,3								
	<b>EMS IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, Light industry level, criteria A								
<b>OTHERS</b>	<b>POWER GOOD SIGNAL</b>	Open collector of NPN transistor								
	<b>SPECIAL FUNCTION</b>	DC Voltage Adj., remote sensing, remote control, parallel operation(refer to control terminal instruction manual)								
	<b>COOLING</b>	By fan, >20% load or >50°C fan on								
	<b>MTBF</b>	37.4K hrs min. MIL-HDBK-217F(25°C)								
	<b>DIMENSION</b>	290*120*132mm (L*W*H)								
	<b>PACKING</b>	4.5kg; 4pcs /19kg /CARTON								
<b>NOTE</b>	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Current limiting 3 times(1.5s,3.0s,5.0s)Then intelligent auto recovery before shut down</li> <li>5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> </ol>									

## Mechanical Specification

Unit:mm



Terminal Pin. No. Assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG $\perp$

Control terminal Pin. No. Assignment (TB1) : Dinkle 51HDBC-O8P or equivalent

Pin No.	Assignment	Pin No.	Assignment	Mating With
1	VS+	5	PG	Dinkle 51SDB-O8P or equivalent
2	VS-	6	PAR	
3	VCI	7	GND	
4	VCO	8	INH	

## Derating Curve

