



Dimension

L	W	H	
278	177.8	63.5(2U)	mm
10.9	7	2.5 (2U)	inch



■ Features

- AC input 180~264VAC
- Built-in active PFC function
- High efficiency up to 93%
- Forced air cooling by built-in DC fans
- Output voltage / current programmable
- Active current sharing up to 9000W(2+1)
- Built-in remote ON-OFF control / auxiliary power / power OK signal
- Protections: Short circuit / Overload / Over voltage / Over temperature / Fan failure
- Optional conformal coating
- 5 years warranty

■ Applications

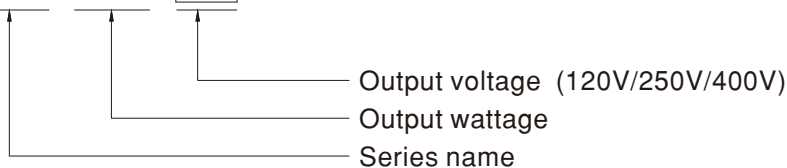
- Factory control or automation apparatus
- Test and measurement instrument
- Laser related machine
- UV curing equipment
- Fish lamp
- Burn-in facility

■ Description

CSP-3000 is a 3KW single output enclosed type AC/DC power supply. This series operates for 180~264VAC input voltage 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, CSP-3000 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 / Order Information

CSP - 3000 - 250





SPECIFICATION

MODEL		CSP-3000-120	CSP-3000-250	CSP-3000-400	
OUTPUT	DC VOLTAGE	120V	250V	400V	
	RATED CURRENT	25A	12A	7.5A	
	CURRENT RANGE	0 ~ 25A	0 ~ 12A	0 ~ 7.5A	
	RATED POWER	3000W	3000W	3000W	
	RIPPLE & NOISE (max.) Note.2	800mVp-p	1000mVp-p	1200mVp-p	
	CONSTANT CURRENT REGION	90 ~ 120V	125 ~ 250V	200 ~ 400V	
	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	1000ms, 80ms / 230VAC at full load				
HOLD UP TIME (Typ.)	10ms at full load				
INPUT	VOLTAGE RANGE Note.4	180 ~ 264VAC 254 ~ 370VDC			
	FREQUENCY RANGE	47~63Hz			
	POWER FACTOR (Typ.)	PF ≥ 0.95 / 230VAC at full load			
	EFFICIENCY (Typ.)	92%	92.5%	93%	
	AC CURRENT (Typ.)	20A/180VAC 16A/230VAC			
	INRUSH CURRENT (Typ.)	Cold start 60A/230VAC			
	LEAKAGE CURRENT	<0.3mA / 240VAC			
PROTECTION	SHORT CIRCUIT	Shut down and latch off o/p voltage, re-power on to recover			
	OVER CURRENT	105 ~ 120% rated output power Constant current limiting with delay shutdown after 3 seconds, re-power to recover			
	OVER VOLTAGE	127 ~ 150V	265 ~ 315V	420 ~ 500V	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down or re-power on to recover			
FUNCTION	OUTPUT VOLTAGE	24 ~ 120V	50 ~ 250V	80 ~ 400V	
	PROGRAMMABLE(PV)	Please refer to the Function Manual.			
	CURRENT SHARING	Please refer to the Function Manual.			
	AUXILIARY POWER(AUX)	12V@0.4A			
	REMOTE ON-OFF CONTROL	Please refer to the Function Manual			
	ALARM SIGNAL OUTPUT	Power OK signal. Please refer to the Function Manual			
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°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	± 0.05%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL62368-1, Dekra seal EN62368-1, EAC TP TC004, GB4943.1			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	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(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 3, 2KV/Line-Earth ; Level 2, 1KV/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	223.8K hrs min. Telcordia SR-332 (Bellcore) ; 75.1K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	278*177.8*63.5mm (L*W*H)			
	PACKING	4Kg; 4pcs/16Kg/1.81CUFT			
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. In the PV Mode: Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Turn off the output when input voltage is less than 160VAC.</p> <p>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 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)</p> <p>6. 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).</p>				