

## 20W Single Output Switching Power Supply



#### ■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 56KHz
- Low cost, high reliability.



#### SPECIFICATION

MODEL		CY-20-5	CY-20-12	CY-20-24
OUTPUT	DC VOLTAGE	5V	12V	24V
	RATED CURRENT	4A	1.6A	0.8A
	CURRENT RANGE	0-4A	0-1.6A	0-0.8A
	RATED POWER	20W	20W	20W
	RIPPLE & NOISE (max.) Note.2	50mVp-p	100mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	±2.0%	± 1.0%	± 1.0%
	LINE REGULATION	±0.5%	± 0.5%	± 0.5%
	LOAD REGULATION	±1.0%	± 0.5%	± 0.5%
	SETUP, RISE TIME	200ms	100ms	
HOLD UP TIME (Typ.)	30ms			
INPUT	VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY(Typ.)	65%	68%	72%
	AC CURRENT (Typ.)	0.6A/115VAC	0.35A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 13A/115VAC	25A/230VAC	
LEAKAGE CURRENT	<0.75mA / 240VAC			
PROTECTION	OVERLOAD	105 ~ 150% rated output power		
		Protection type :Hiccup mode, recovers automatically after fault condition is removed.		
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL1012, TUV EN60950-1 approved		
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC 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	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5, EN55024, light industry level, criteria A		
OTHERS	MTBF	522.1K hrs min. MIL-HDBK-217F (25) °C		
	DIMENSION	95*58*36mm (L*W*H)		
	PACKING	0.12Kg; 45pcs/15Kg/0.9CUFT		
NOTE	<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> </ol>			