

Model Name: YM-8701A Op. AR
Marketing PN: CP-1100R2



Features

- 140 (L) x 150 (W) X 86 (H) mm
- High Power Density - 6.35 W/in³
- >70% Efficiency
- Low Noise (w/Fan speed control)
- Universal inputs
- Active Power Factor Correction
- RoHS compliant for all six substances



Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	10A max at 115V 6A max at 230V
Inrush Current	60A max at 115V 120A max at 230V
Power Factor	>0.98/115V 60Hz >0.93/230V 50Hz
Earth Leakage Current	3.5mA max at 240VAC/50Hz

General

Efficiency	Min 70% at 115VAC
Power Density	6.35 W/in ³
Signals	Power good, TTL compatible. Fan speed control
MTBF	200 kHrs per Bellcore SR-332 at 50°C ambient
Remote Sensing	+3.3V, +5V and +12V3

Output

Output Voltage	See table
Minimum Load	See table
Start Up Delay	<500 mSec maximum
Start Up Rise Time	1mSec to 25mSec measured from 10% to 90%
Hold Up Time	>17 mS/110V
Over/Undershoot	<10% max at turn on/off
Transient Response	<4% max diviation, recovery to within 1% in 1 mSec for 25% load change
Over Voltage Protection	+3.3V: 3.6V-4.4V +5V: 5.58V-6.82V +12V: 13.14V-16.06V
Over Temperature Protection	Primary & secondary protection with auto recovery
Over Current Protection	+3.3V, +5V, +12V1, +12V2, +12V3, +12V4/240VA max, 110-150%, latch off and shut down
Short Circuit Protection	No damage, resistance ≤ 0.01 Ω
Temperature Coefficient	≤ 0.05%/°C after 30 min operating
Remote On/Off	On = PSON ≤ 0.8V Off = PSON ≥ 2.4V, open

Environmental

Operating Temperature	0 to 40°C
Cooling	80mm fan required
Operating Humidity	5-90%, Non-condensing
Storage Temperature	-40°C to +70°C
Operating Altitude	sea level to 7,000 feet
Shock	Operating: 5G, 11 mSec, half sine 3 axes Non-Operating: 30G, 11 mSec, half sine 3 axes
Vibration	Operating: 0.5G, 10 Hz to 500 Hz, 3 axes Non-Operating: 2G, 10 Hz to 300 Hz, 3 axes

EMC & Safety

Emissions	EN55022, class B Conducted EN55022, class B Radiated
Harmonic Currents	EN61000-3-2, class D
Voltage Flicker	EN61000-3-3
EFT/Burst	EN61000-4-4, level 3 Perf Criteria B
Surge	EN61000-4-5, level 3 Perf Criteria B
Conducted Immunity	EN61000-4-6, 10Vrms, Perf Criteria A
Safety Approvals	UL/cUL60950, TUV, CB, CE, FCC Report

Application

• Server • Networking • Gaming • Workstation

Output	Minimum Load	Maximum Load	Condition	Ripple & Noise
+3.3 V	0 A	28 A	Combined 3.3V & +5V power $\leq 170W$	50mV p-p
+5 V	0 A	30 A		50mV p-p
+12 V1	0.5 A	16 A		120mV p-p
+12 V2	0.5 A	16 A		120mV p-p
+12 V3	1 A	16 A	Combined current +12V1, +12V2, +12V3, +12V4 $\leq 50A$	120mV p-p
+12 V4	0.5 A	16 A		120mV p-p
-12 V	0 A	0.5 A		120mV p-p
+5 Vsb	0.1 A	3.5 A		50mV p-p

