

**1U Redundant****1U, 1+1-Sunny Series****FEATURE**

- Ultra compact Design (1U Size)
- >80% Very High Efficiency
- low noise design <50dB @ full load
- Remote On/Off Control
- Current share with O-ring diodes
- I2C Serial Bus Interface
- Tylersburg compliant
- RoHS compliant for all six substances

**SAFETY STANDARD APPROVAL**

**CB CE FCC**

**INPUT SPECIFICATION**

Input Voltage	90-264VAC
Input Frequency	47~65Hz
Input Current	8A max at 115V
Inrush Current	60A max at 230V
EarthLeakageCurrent	3.5mA max@264V/50Hz

**GENERAL**

Efficiency	Min 80% at 115VAC
Power Density	4.72 W/in <sup>3</sup> : YH8451-1BXR 6.82 W/in <sup>3</sup> : YH8451-1BXR
Signals	Power good, TTL compatible I <sup>2</sup> C Bus, Presence indicator Presence indicator
MTBF	200 kHrs per Bellcore SR-332 at 50°C
Remote Sensing	+3.3V, +5V, +12V

**OUTPUT SPECIFICATION**

Output Rating	See table
Ripple & Noise	+12V, -12V: 120mV p-p +3.3V, +5V, +5Vsb: 50mV p-p
Hold Up Time	14mS/110V: YH8451-1BXR 18mS/110V: YH8651-1BXR
OVP	+3.3V: 3.9V ~ 4.5V +5V: 5.7V~6.5V + 12V: 13.3V~14.5V
OTP	Primary & secondary protection with auto recovery
OCP	+3.3V: 22~30A +5V: 22~30A +12V: 19~24A
Remote On/Off	On = PSON ≤ 0.8V, low Off = PSON ≤ 2.4V, high, open
Current Share	2 supplies to share within ±10%
I <sup>2</sup> C-Bus	
EEPROM	

**ENVIROMENTAL**

Operating Temp.	0 to 40°C
Operating Humidity	5-90% RH non-condensing
Storage Temp.	-40°C to +70°C
Storage Humidity	

**EMC & Safety**

Safety Approvals	IEC60950-1
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 Pref Criteria B
Conducted Immunity	EN61000-4-6, 10Vrms Pref Criteria A

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**PRODUCT SERIES LIST**

Model Name	Total Output Watt.	Output Current													
		+3.3V		+5V		+12V1		+12V2		+12V3		-12V		+5VSB	
		Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)
YH5301-1BXR	300W	-	18	-	18	-	25	-	-	-	-	-	0,5	-	3
YH8451-1BXR	450W	1,5	18	1	18	1	16	1	16	0	16	0	0,5	0,1	3
YH8651-1BXR	650W	1,5	20	1	20	0,5	16	0,5	16	1	16	0	0,5	0,1	3

Note:

**Redundant Module: YM-2301DXR, YM-2451CXR, YM-2651BXR**

YH8451-1BXR : Combined +3.3V & +5V power  $\leq 140W$ . Combined 12V1~3 Current  $\leq 32A$ . Maximum continuous total DC output power should not exceed 450W.

YH8651-1BXR: Combined +3.3V, +5V power  $\leq 140W$ .

**Mechanical Drawing**

Dimension 355(L) x 106(W) x 41.5(H)

