

Features

- Input Voltage 90~305V AC
- Built in Active PFC Function
- Approved to UKCA, CE
- Safety Approved to IEC 62368-1 BS EN/EN 62368-1
- Efficiency up to 88%
- Protection: OLP, OVP, OTP SCP
- 3 Years Warranty



Ideal Power's 56YEP200-xy 200W Enclosed AC/DC Power Supply (PSU) Series is certified to UKCA, CE & IEC 62368-1/BS EN62368-1/EN 62368-1 Standards and complies with the relevant Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Voltage Adj. Range (V)	Ripple & Noise (mVp-p)
56YEP200-05	5	40	200	83	4.5~5.5	150
56YEP200-7.5	7.5	26.7	200.3	84	6.8~8.25	150
56YEP200-12	12	16.6	199.2	84	10~13.2	150
56YEP200-13.5	13.5	14.9	201.2	84	12~15	150
56YEP200-15	15	13.33	200	85	13.5~18	150
56YEP200-24	24	8.33	199.9	87	20~26.4	150
56YEP200-27	27	7.5	202.5	87	24~30	200
56YEP200-36	36	5.56	200.2	88	32~40	200
56YEP200-48	48	5.56	199.7	88	41~56	240
56YEP200-60	60	4.16	200.4	88	54~66	240

Input Specifications

Input Voltage	90-305VAC/127-430VDC
Frequency Range	47-63Hz
Power Factor	PF> 0.95/230V AC at full load - PF> 0.98/115V AC at full load
AC Current	2.5A/115VAC, 1.3A/230VAC
Inrush Current	20A/115VAC, 40A/230VAC
Leakage Current	< 1mA/240VAC
Connection	I/P: 3 poles terminal Block

Output Specifications

Voltage Tolerance	±2.0%	
Line Regulation	±0.5%	
Load Regulation	±1.0%	5v, 12v, 15v
	±0.5%	24v, 48v, 56v
Set up	1500ms, 50/230VAC at full load	
Rise Time	3000ms, 50ms/115VAC at full load	
Hold up Time	8ms at full load, 230VAC/115VAC	
Connection	O/P: 4 poles terminal Block	

Protection

Over Load	105%-135% Rated Output Power	
	Protection type: Constant current limiting, recovers automatically after fault condition is removed.	
Over Voltage	5.75 ~ 7V	5v
	13.8 ~ 16.2V	12v
	18.8 ~ 21.8V	15v
	27.6 ~ 32.4V	24v
	58.4 ~ 68V	48v
	65 ~ 70V	56v
	Protection type: Shut down o/p voltage, re-power on to recover.	
Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down	

Environmental Characteristics

Working Temp	-30~+70°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	±0.03%/°C (0~45°C)
Vibration	10 ~ 500Hz, 2G 10min. /1cycle, period for 60min. each along X, Y,Z axes
MTBF	1766.4K hrs min. Telcordia SR-332 (Bellcore)

Safety & EMC

Safety Standards	BS EN/EN62368-1
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	Compliance to BS EN/EN55032 (C1SPR32) Class B, BS EN/EN61000-3-2, -3
EMC Immunity	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035

Notes:

All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperatures. Ripple & noise are measured from peak to peak with band width limit of 20MHz (0.1uF and 47uF/50V parallel capacitor under DC output full load, AC nominal input 25°C ambient temperature). Derating may be needed under low input voltages. Please check the derating curve for more details.

The power supply is considered a component which will be installed into final equipment. 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 “EMC testing of component power supplies”.

The ambient temperature derating of 5°C/1000m with fan models for operating altitude higher than 2000m (6500ft).

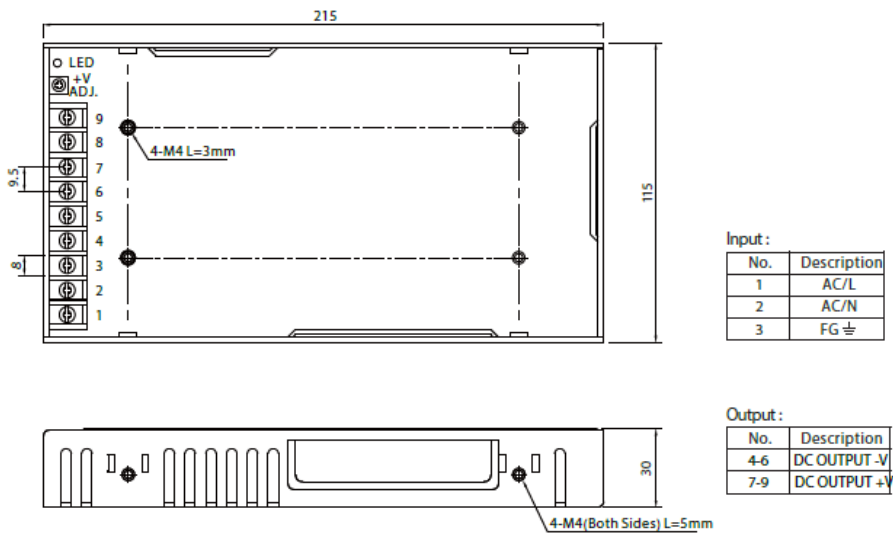
Dimensions & Weight

Size	215x115x30mm / 8.46x4.53x1.18
Weight	720g

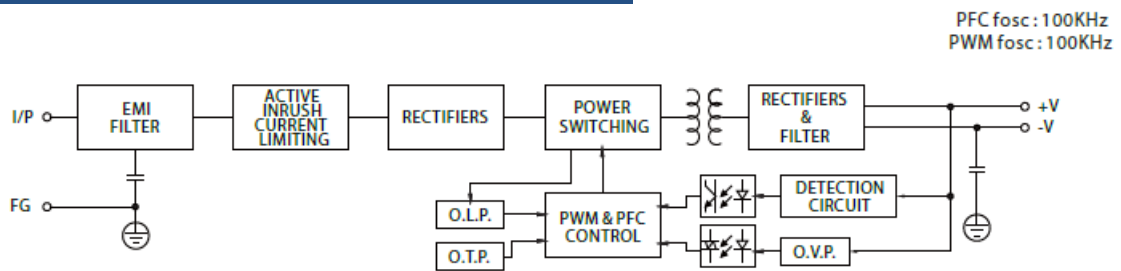
Packaging

Carton Size	38x19.5x26cm / 14.96x7.68x10.24in
Master Carton Quantities	15pcs/Carton

Dimensions and Recommended Layout



Block Diagram



Derating Curve

