

Features

- Universal input 100-240VAC
- Class I (C14)
- Approved to CE, cULus, RCM (C-Tick) RoHS & REACH
- UL/EN/IEC 62368-1 Safety Approved
- Meets Efficiency Level VI & (EU) 2019/1782
- Single Output 12-48V DC



Ideal Power's 66JYH5Z-xy-BY 96W Series IEC 320-C14 DC/DC Converters are certified to cURus, UKCA, CE, RoHS, REACH & IEC/UL/EN 62368-1 Standards and comply with Efficiency Regulations. These are primarily used in ITE, Video & Audio Industries and customised solutions are available upon request.

Models

Model Number	Output Voltage	Output Current	Output Power
66JYH5Z-1200800-BY	12V DC	8A	96W
66JYH5Z-1500640-BY	15V DC	6.4A	96W
66JYH5Z-1800530-BY	18V DC	5.3A	96W
66JYH5Z-2400400-BY	24V DC	4A	96W
66JYH5Z-4800200-BY	48V DC	2A	96W

General Specification

Type	Switched Mode Power Supply
Input Connector	IEC 320-C14
Output Connection	2.5x5.5x11.0mm +ve inner/centre
Number of Outputs	1
Energy Efficiency Level	VI
Mounting Style	Desktop
MTBF	20,000 hours at maximum load /709.7K hrs min. MIL-HDBK-217F(25°C)
Switching Frequency	65KHz
Power Indicator	LED Indicator for power on
Cable Length	1200mm(±100mm)
Cable Type	16AWG/18AWG/20AWG (Depending on model)
Medical Approved	No

Input Specifications

Rated Input Voltage	100 to 240V ac
Full Input Voltage Range	90 – 264V ac
Rated Frequency	50/60Hz
Full Frequency Range	47/63Hz
Efficiency Level VI	Level VI / Efficiency (EU) 2019/1782
Power Factor	0.6
Input Current (RMS Max.)	2.5A
Inrush Current	80 Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient.
Leakage Current (max.)	0.75mA / 240V ac
Input Protection	Thermal fuse in Primary; Current Limit, Short Circuit

Output Specifications

Output Regulation	+/-5%		
Ripple & Noise (max.)	120mVp-p ~ 240mVp-p (Depending on model)		
Voltage Tolerance	±5.0%		
Line Regulation	±1.0%		
Load Regulation	±5.0%		
No Load Power Consumption	<0.21W (<0.1W for 5V Model)		
Startup, Rise Time	40ms Max at 115V ac input and output Max load.		
Hold Up Time (Typ.)	50ms Min. at 115V ac input and output Max Load.		
Transient Response	4% Deviation		
Number of Outputs	1		
Turn On Delay	3 Seconds Max. at 115V ac input and output Max Load.		
Insulation Class	I/II		
Switching Frequency	65KHz		
Isolation Resistance	20MΩ @500V dc		
Overload Protection	Hiccup mode, recovers automatically after fault condition is removed		
Over Voltage Protection	Auto recover when 120% ~ 170% of fault is removed.		
Over Temperature Protection	Shut down o/p voltage, re-power on to recover		
Short Circuit Protection	Auto recover when the short circuit fault is removed		
Voltage Isolation	Input-Output	1500V ac	
	Input-Ground	1500V ac	
	Output-Ground	500V ac	

Mechanical Specifications

Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	140mm x 60.5mm x 33mm
Overall Length	140mm
Overall Depth	60.5mm
Overall Width	33mm
Weight	380g

Environmental Data

Cooling	Natural convection
Operating Temperature Range	0 to 40°C
Operating Humidity	20% to 90% RH non-condensing
Storage Temperature Range	-20 to 80°C
Temperature Coefficient	± 0.03% / C
Altitude During Operation	2000m
Pollution Degree	2
Vibration Resistance	10-500Hz, 2G, along X, Y,Z each Axis, 60 min for each Axis
Shock Resistance	15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face

Approvals

Compliance/Certifications	CB / TUV/GS / UL/CUL / PSE
Safety Standard	UL62368-1, EN 62368-1, IEC 62368-1, J60950-1 approved
EMC Emission	Compliance to EN 55032, EN 55024, EN 55014, FCC

Mechanical Drawing

