

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 5-48V DC



Ideal Power's 66JYH4Z-xy-BY 72W 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
66JYH4Z-0500800-BY	5V DC	8A	40W
66JYH4Z-1200500-BY	12V DC	5A	60W
66JYH4Z-1500433-BY	15V DC	4.33A	64.5W
66JYH4Z-1800350-BY	18V DC	3.5A	63W
66JYH4Z-2400300-BY	24V DC	3A	72W
66JYH4Z-3600200-BY	36V DC	2A	72W
66JYH4Z-4800150-BY	48V DC	1.5A	72W

General Specification

Type	Switched Mode Power Supply
Input Connector	IEC 320-C14
Output Connection	2.1x5.5x11.0mm +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/1500mm (Depending on model)
Cable Type	16AWG/18AWG/20AWG (Depending on model)

Input Specifications

Rated Input Voltage	100~240Vac (±10%)
Full Input Voltage Range	90 – 264V ac
Rated Frequency	50/60Hz
Efficiency Level VI	Level VI / Efficiency (EU) 2019/1782
Power Factor	0.6
Input Current (RMS Max.)	1.7A
Inrush Current	80A Max. / 240Vac (Cold Start At 25°C, Full Load)
Leakage Current (max.)	<2mA / 240V ac
Input Protection	Thermal fuse in Primary; Current Limit, Short Circuit

Output Specifications

Output Regulation	±5%	
Ripple & Noise (max.)	150mVp-p	
Voltage Tolerance	±5%	
Line Regulation	±1.0%	
Load Regulation	±5%	
No Load Power Consumption	<0.21W (<0.1W for 5V Model)	
Startup, Rise Time	1000ms, 50ms /230V ac 1000ms, 50ms /115V ac at full load	
Hold Up Time (Typ.)	50ms / 230V ac, 15ms / 115V ac at full load	
Transient Response	4% Deviation	
Number of Outputs	1	
Turn On Delay	3 Seconds Max.	
Insulation Class	I/II	
Switching Frequency	65KHz	
Isolation Resistance	100MΩ @500V dc	
Overload Protection	Hiccup mode, recovers automatically after fault condition is removed	
Over Voltage Protection	Shut down o/p voltage, re-power on to recover	
Over Temperature Protection	Shut down o/p voltage, re-power on to recover	
Short Circuit Protection	Yes	
Voltage Isolation	Input-Output	1500V ac
	Input-Ground	1500V ac
	Output-Ground	500V ac

Mechanical Specifications

Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	120mm x 52.5mm x 36mm
Overall Length	120mm
Overall Depth	52.5mm
Overall Width	36mm
Weight	240g

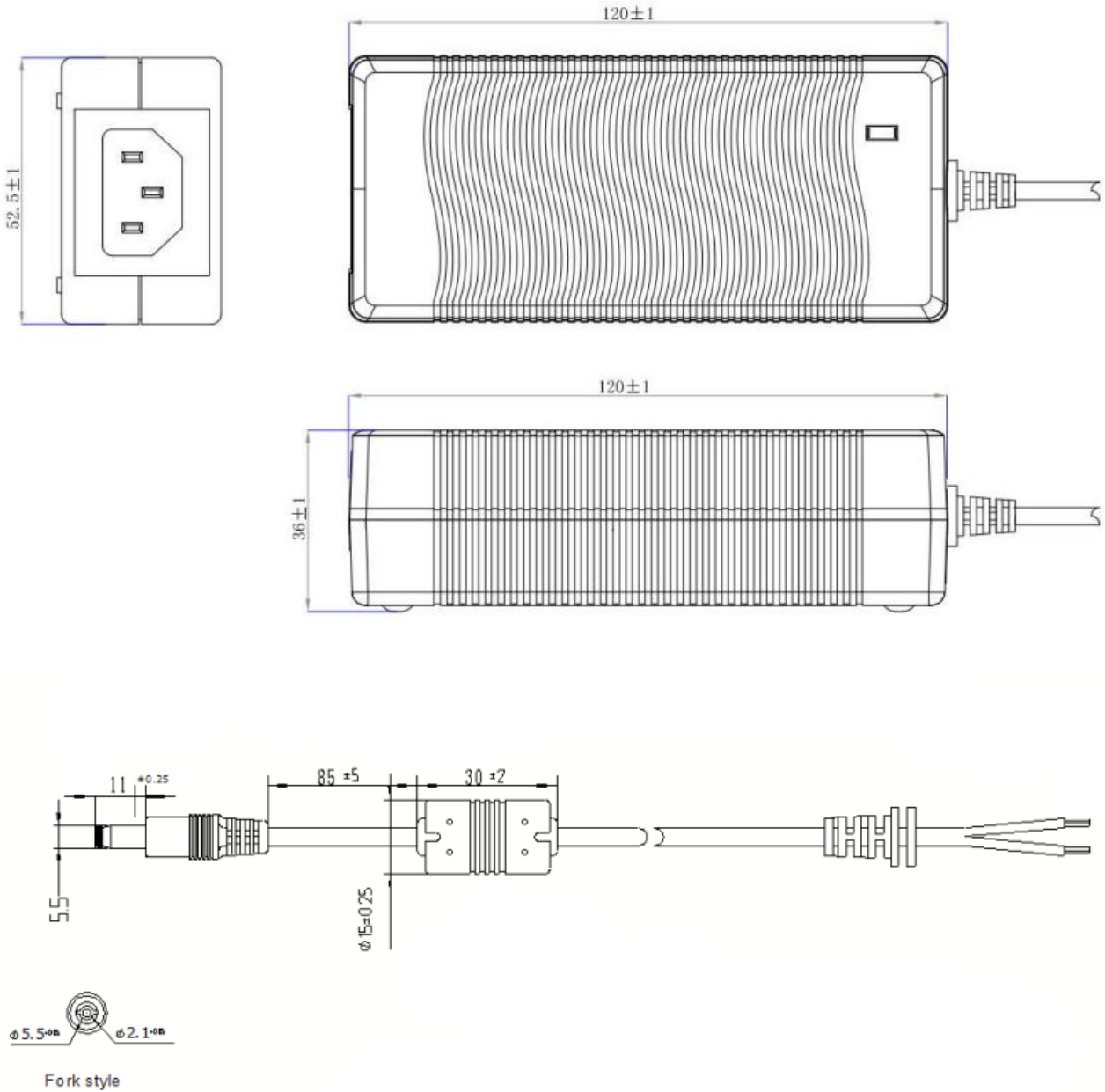
Environmental Data

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	cULus / TUV GS / CB / CE / FCC
Safety Standard	UL62368-1, EN 62368-1, IEC 62368-1 approved
EMC Emission	Compliance to EN 55032, EN 55024, EN 55014, FCC

Mechanical Drawing



AC – DC