

Features

- Input Voltage: 100~240VAC/140~340VDC
- Built-in active PFC Function, PFC>0.95
- -30~+70°C working temperature
- Approved to CE, CB, CCC, cULus
- Efficiency up to 91.5%
- Protection: OLP, OVP, OTP SCP
- Forced Air Cooling by Built-in DC Fan
- 3 Years Warranty



Certified to EN 62368-1/IEC 62368-1/GB 4943.1 & CE, RoHS, REACH 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

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Model Number	DC Voltage (V)	Output Power (W)	Input Voltage (V AC)	Efficiency (%)	Output Current (A)	Max Capacitive Load (µF)
64A-500FKG-12P	12	500.4	100-240	90	0-41.7	30000µF
64A-500FKG-15P	15	501	100-240	90	0-33.4	15000µF
64A-500FKG-24P	24	504	100-240	92	0-21	20000µF
64A-500FKG-27P	27	502.2	100-240	92	0-18.6	18000µF
64A-500FKG-36P	36	496.8	100-240	92	0-13.8	18000µF
64A-500FKG-48P	48	504	100-240	93	0-10.5	4000µF

Notes:

All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

Input Specifications

90-264VAC		
100-240VAC		
140-340VAC		
5.7A	100% load,115Vac	
2.7A	100% load,230Vac	
47~63Hz		
120A/230/277VAC		
240VAC/60Hz		
-	100-240VAC 140-340VAC 5.7A 2.7A 47~63Hz 120A/230/277	100-240VAC 140-340VAC 5.7A 100% load,115Vac 2.7A 100% load,230Vac 47~63Hz 120A/230/277VAC

Ideal Power Limited 14 Larks Way, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, England, EX32 7NZ. www.idealpower.co.uk | salessupport@idealpower.co.uk | +44 (0) 1733 309865



64A-500FKG-xPy AC-DC PSU Series Up to 500 Watts

Output Specifications

Voltage Tolerance	±2.0%	12v, 15v	
	±1.0%	Others	
Voltage adj. Range	10.8-13.2	12v	
	13.5-16.5	15v	
	21.6-26.4	24v	
Voltage adj. Nange	24.3-29.7	27v	
	32.4-39.6	36v	
	44-52	48v	
	200mV	12v, 24v, 27v	
Ripple & Noise (pk-pk)	250mV	15v,	
	230mV	36v, 48v	
	11.88-12.12	12v	
	14.85-15.15	15v	
Default voltage	23.76-24.24	24v	
Boldult Voltago	26.73-27.27	27v	
	35.64-36.36	36v	
	47.52-48.48	48v	
Rise Time	100ms/230VA	AC	
Turn on delay time	1000ms/230V	'AC	
Hold up Time	6ms/230VAC		
Line Regulation	±0.5%	All	
Load Regulation	±1.0%	All	

Notes:

Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf and 47uf parallel capacitor.

EMS Standards Notes Standards/ Criterion Electrostatic Discharge (ESD) EN 61000-4-2 Air 8 kV / contact 4 kV Criteria B Radio-Frequency Electromagnetic Field 80MHz-1GHz 10V/m Criteria B EN 61000-4-3 Susceptibility Test-RS Electrical Fast Transient / Burst-EFT EN 61000-4-4 ±2KV, (5 or 100) kHz Criteria B Surge Immunity Test EN 61000-4-5 CM±2KV/DM ±1KV Criteria B CE Conducted Radio Frequency Disturbances EN 61000-4-6 10Vr.m. s; Criteria A Test-CS 0%/100%/0.5 Period Criteria C Voltage dips EN61000-4-11 70%/30%/25 Period Criteria B 0%/100%/250 Period Criteria B

Notes :

The power supply is considered a component which will be installed into a terminal equipment. All EMC tests should be confirmed with the final equipment.

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Safety & EMC

Harmonic Current	EN 61000-3-2
Conducted Emissions	EN55032
Test & Radiated	
Voltage Fluctuations &	EN61000-3-3
Flicker	
Safety Standard	UL 62368-1; EN62368-1; IEC 62368-1; GB 4943.1;

Protection

	110% -150%		
Overload	Hiccup mode, can automatically resume normal operation after eliminating overload		
Over voltage	110~135%		
	Turn off output voltage, restore normal operation after fault elimination		
Over temperature	Shut down output voltage, recovers automatically after temperature decreases		
Short circuit	Power protection after shirt circuit at the output end, which can automatically restore output after eliminating the short circuit		

Environmental Characteristics

Working Temp & Humidity	-30~70°C 20%~95%	RH no condensing	g (refer to derating curve)	
Storage Temp & Humidity	-40°C~80°C 10%~95%RH no condensing			
Temperature Coefficient	±0.03% (0-50°C)			
Altitude	5000m - The ambient temperature of derating of 0.5°C/100m for operating altitude higher than			
	Input - Output	3000VAC	10mA@60s	
Dielectric Test	Input – Case	1500VAC	10mA@60s	
	Input - Case	500VAC	10mA@60s	
Ground Resistances	0.1Ω			
Insulation Resistance	100MΩ	500VDC, 60s		

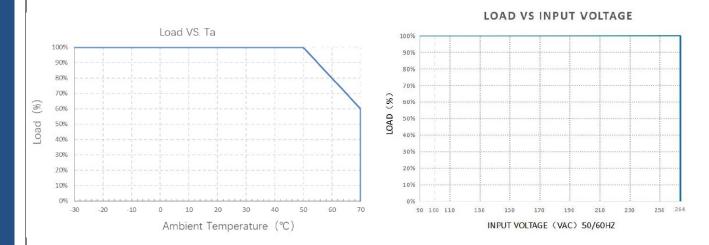
Other Information

MTBF	100Khrs, 230VAC,25°C,80% Load (MIL-HDBK-217F)
SIZE	L230.0×W127.0×H40.5
Weight	970g
Output ON/OFF control	RC+ /RC-; 0-1 or short circuit or open circuit power on; 4-10v power off (optional)
Remote voltage compensation	S+/S- ; S- are connected to the positive and negative terminals of the load respectively, and the maximum line voltage drop can be compensated to 0.2V (optional)
Fan Control	RTH2 ≥ 50 °C± 10 °C Fan on; RTH2 ≤ 40 °C± 10 °C Fan shutdown



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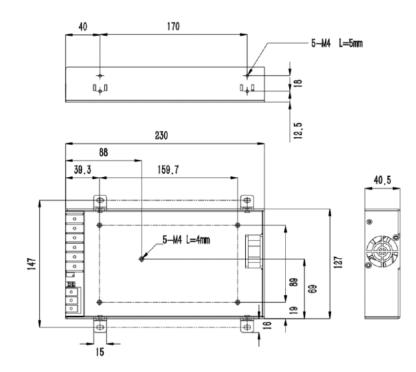
Derating Curve



Notes:

To extend the service life, it is recommended to leave 30% more allowance when loading. For example, if the equipment needs 100W, please choose the power supply over 130W

Dimensions and Recommended Layout



Other Information

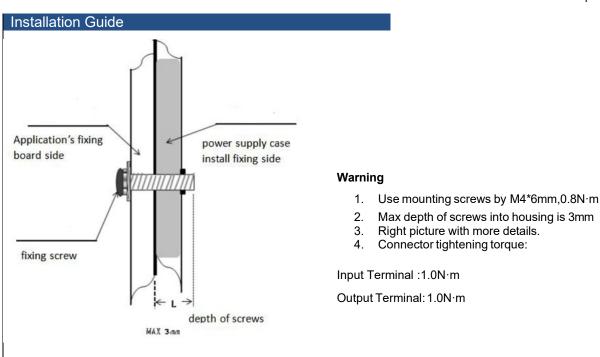
PIN number	PIN Function	PIN Number	PIN Function
L	AC Line	V+	DC Output+
Ν	AC Neutral	V-	DC Output-
FG	Earth	RC+	Control signal +
S+	Induction signal+	RC-	Control signal -
S-	Induction signal-		

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Instructions :

1. Please follow the installation instructions when use the power supply.

2. Before power on test run after installation, please check and proofread the wiring on each terminal, make sure that the input and output, AC and DC, positive and negative, voltage and current values are correct, prevent the occurrence of wrong connection, and avoid damaging the power supply and user equipment.

3. Before power on, please use a multi meter to measure whether the live wire, zero wire and ground wire are short circuited, and whether the output terminal is short circuited; it is better to start without load when power on.

4. Do not exceed the nominal value of the power supply when using, so as not to affect the reliability of the product. If you need to change the output parameters of the power supply, please consult our technical department before using.

5. In order to ensure the safety of use and reduce interference, please ensure that the grounding terminal is reliably grounded (ground wire please thicker than AWG18#)

6. If the power supply fails, please do not repair it without permission. Please contact us on +44 (0) 1733 309865

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