

## Features

- Input Voltage: 100~240VAC/140~340VDC
- Standard ultra-thin product, height 30mm
- -30~+70°C working temperature
- Approved to CE, CB, CCC, cULus
- Efficiency up to 86%
- Protection: OLP, OVP, SCP
- 3 Years Warranty
- -30~+70°C working temperature (refer to derating curve)



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

Model Number	DC Voltage (V)	Output Power (W)	Input Voltage (V AC)	Efficiency (%)	Output Current (A)	Max Capacitive Load (µF)
64A-100FGC-5	5	80	100-240	83	0-16.0	6000
64A-100FGC-12	12	100.8	100-240	85	0-8.40	3600
64A-100FGC -15	15	100.5	100-240	85	0-6.70	1800
64A-100FGC -24	24	100.8	100-240	85	0-4.20	900
64A-100FGC -36	36	100.8	100-240	86	0-2.80	600
64A-100FGC -48	48	105.6	100-240	86	0-2.20	240

#### Notes:

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

### Input Specifications

Input Voltage	90-264VAC	
Rated Input Voltage (AC)	100-240VAC	
Rated Input Voltage (DC)	140-340VAC	
Input current	1.2A	100% load, 230V AC
	1.9V	100% load, 115V AC
Frequency Range	47~63Hz	
Inrush Current	120A/230/277V AC	
Leakage Current	1mA, 240Vac/60Hz	

### Output Specifications

	5v	12v	15v	24v	36v	48V
Voltage Tolerance	±2.0%	±1.0%				
Voltage adj. Range	4.5-5.5	10.8-13.2	13.5-16.5	21.6-26.4	33-39	42-54
Ripple & Noise (pk-pk)	100mV	120mV		150mV	200mV	
Default voltage	5-5.1	12-12.2	15-15.2	24-24.3	36-36.4	48-48.4
Rise Time	50ms/230VAC					
Turn on Delay Time	2500ms/230VAC					
Hold up Time	20ms/230VAC					
Line Regulation	±0.5%	All				
Load Regulation	±2.0%	3.3v, 5v				
	±1.0%	Others				

### EMS Standards

	Notes	Standards/ Criterion		
CE	Electrostatic Discharge (ESD)	EN 61000-4-2	Air 8 kV / contact 6 kV	Criteria B
	Radio-Frequency Electromagnetic Field Susceptibility Test-RS	EN 61000-4-3	80MHz–1GHz 10V/m	Criteria B
	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
	Conducted Radio Frequency Disturbances Test-CS	EN 61000-4-6	10Vr.m. s;	Criteria B
	Power Frequency Magnetic Field Test	EN61000-4-8	30A/m	Criteria B
	Voltage dips	EN61000-4-11	0%/100%/0.5 Period	Criteria C
			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 test should be confirmed with the final equipment.

### Safety & EMC

Harmonic current	EN 61000-3-2
EMC	Design refer: EN55032, Class A
Safety standard	UL 62368-1; EN62368-1; IEC 62368-1; GB 4943.1;
Voltage Fluctuations and flicker	EN 61000-3-3

### Protection

Over current protection	110% -160%
	Hiccup mode, recovers automatically after fault condition is removed
Over voltage protection	110~130%
	Dual voltage loop voltage limiting. When the main voltage loop fails and caused an increase in output voltage, the secondary voltage loop (over voltage protection loop) operates in real time, limiting the output voltage to a safe range of values.
Short circuit	Power protection after short circuit at the output end, which can automatically restore output after eliminating the short circuit.

**Environmental Characteristics**

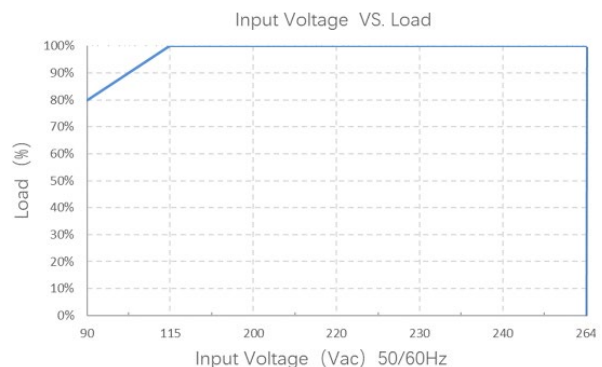
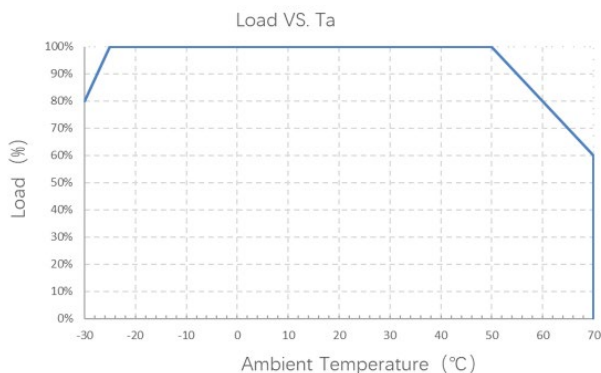
Working Temp & Humidity	-30~70°C 20%~95%RH no condensing (refer to derating curve)		
Storage Temp & Humidity	-30°C~80°C 10%~95%RH no condensing		
Temperature coefficient	±0.03% (0-50°C)		
Altitude	5000m - The ambient temperature of derating of 0.5°C/100m for operating altitude higher than 2000m		
Dielectric test	Input-Output	3000VAC	7mA@60s
	Input- Case	1500VAC	7mA@60s
	Output-Case	500VAC	7mA@60s
Ground Resistances	0.1Ω		
Insulation Resistance	100MΩ	500VDC, 60s	

**Other Information**

MTBF	100Khrs, 230VAC,25°C,80% Load (MIL-HDBK-217F)		
SIZE	L129.0×W97.0×H30.0mm		
Weight	300g		
Remote voltage compensation	S + / S -; s + and S - are respectively connected to the positive and negative ends of the load, the maximum line voltage drop can be compensated to 0.2V (optional)		
Output ON/OFF control	RC + / RC -		
	Logic A: 0-0.6v or short circuit or open circuit power on; 1-10v power off (optional) Logic B: short circuit or 0-0.6v power on; open circuit or 1-10V power off (optional)		
Redundant	Redundant parallel SPS with current sharing enabled.		

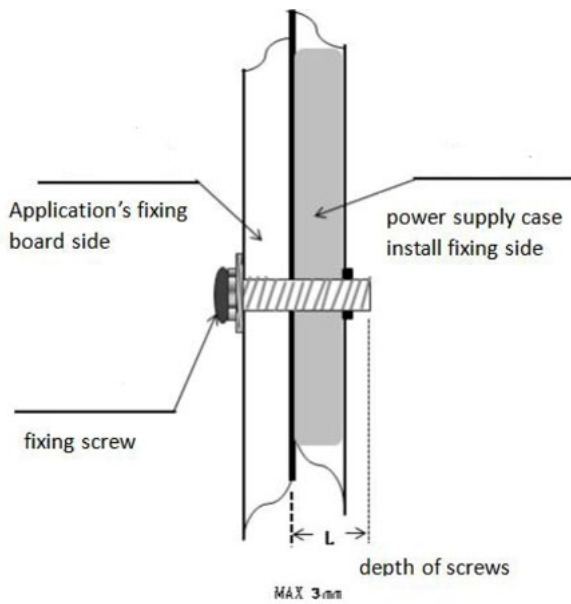
**Notes :**

To extend the service life, it is recommended to leave 30% more allowance when loading. For example, if the equipment needs 100W power, please choose the power supply over 13

**Derating Curve**




## Installation Guide



### Warning

1. Use mounting screws by M4\*6mm, 0.8N·m
2. Max depth of screws into housing is 3mm
3. Right picture with more details.
4. Connector tightening torque:  
Input Terminal : 1.0N·m  
Output Terminal : 2.0N·m

### 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. 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