

## 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 93%
- Protection: OLP, OVP, OTP SCP<
- Forced Air Cooling by Built-in DC Fan
- Supports 3+1 Parallel Redundancy, Current Sharing
- 3 Years Warranty



Certified to EN 62368-1/IEC 62368-1/GB 4943.1 & CE, CB, 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	Output Voltage (V)	Output Power (W)	Input Voltage (V AC)	Efficiency (%)	Output Current (A)	Max Capacitive Load (μF)
64A-1000FKK-12P	12	960	100-240	90	0-80.0	40000
	5	10			2.00	2000
64A-1000FKK-15P	15	3960	100-240	90	0-64.0	20000
	5	10			2.00	2000
64A-1000FKK-24P	24	998	100-240	92	0-41.0	20000
	5	10			2.00	2000
64A-1000FKK-27P	27	999	100-240	92	0-37.0	18000
	5	10			2.00	2000
64A-1000FKK-36P	36	1008	100-240	93	0-28.0	18000
	5	10			2.00	2000
64A-1000FKK-48P	48	1008	100-240	93	0-21.0	15000
	5	10			2.00	2000
64A-1000FKK-55P	55	1001	100-240	93	0-18.2	1500
	5	10			2.00	2000μ

#### 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	
Input current	12A	100% load, 115Vac
	5V	100% load, 230Vac
Frequency Range	47~63Hz	
Inrush Current	120A/230/277VAC	
Leakage Current	240Vac/60Hz	

**Output Specifications**

Voltage Tolerance	±2.0%	All
Voltage adj. Range	10.8-13.2	12V
	13.5-16.5	15V
	21.6-26.4	24V
	24.3-29.7	27V
	32.4-37.8	36V
	45.6-50.4	48V
	52.2	55V
	Ripple & Noise (pk-pk)	200mV
300mV		48v, 55v
Default voltage	12-12.2	12v
	15-15.2	15v
	24-24.3	24v
	27-27.4	27v
	36-36.4	36v
	48-48.4	48v
	55-55.4	55v
Rise Time	100ms/230VAC	
Turn on delay time	3000ms/230VAC	
Hold up Time	100ms/230VAC	
Line Regulation	±0.5%	All
Load Regulation	±2.0%	All
Output Voltage	±1.0%	All

**Notes:**

Ripple &amp; Noise are measured at 20MHz of bandwidth, using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.

**EMS Standards**

	Notes	Standard / Criterion	
CE	Electrostatic Discharge (ESD)	EN 61000-4-2	Air 8 kV / contact 4 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±4KV/DM ±2KV Criteria B
	Conducted Radio Frequency Disturbances Test-CS	EN 61000-4-6	10Vr.m.s; Criteria B
	Voltage Dips	EN 61000-4-11	0%/100%/0.5 Period 70%/30%/25 Period 0%/100%/250 Period Criteria C Criteria B Criteria B

**Notes:**

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

**Safety & EMC**

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

**Protection**

Over Current	110% -150% Rated current, hiccup mode, recovers automatically after the fault condition is removed.
Overvoltage	110~140% Constant voltage recovers automatically after the fault condition is removed.
Over Temperature	Shut down output voltage; recovers automatically after temperature decreases.
Short circuit	Hiccup mode recovers automatically after the fault condition is removed.

**Environmental Characteristics**

Working Temp & Humidity	-30~70°C 20%~95%RH no condensing (refer to derating curve)
Storage Temp & Humidity	-40°C~85°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 altitudes higher than 2000m

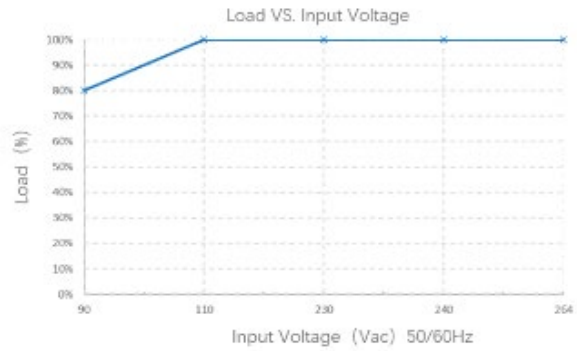
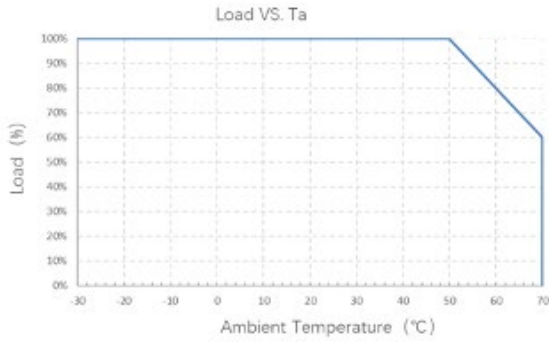
**Other Information**

MTBF	100Khrs, 230VAC, 25°C, 80% Load (MIL-HDBK-217F)		
SIZE	L230.0×W127.0×H40.5mm		
Weight	1200g		
Cooling method	Forced air cooling by built-in DC fan		
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.		
Dielectric Test	Input – Output	3000VAC	10mA@60s
	Input - Case	1500VAC	10mA@60s
	Output - Case	500VAC	10mA@60s
Ground resistance	0.1Ω		
Insulation Resistance	100MΩ	500VDC, 60s	

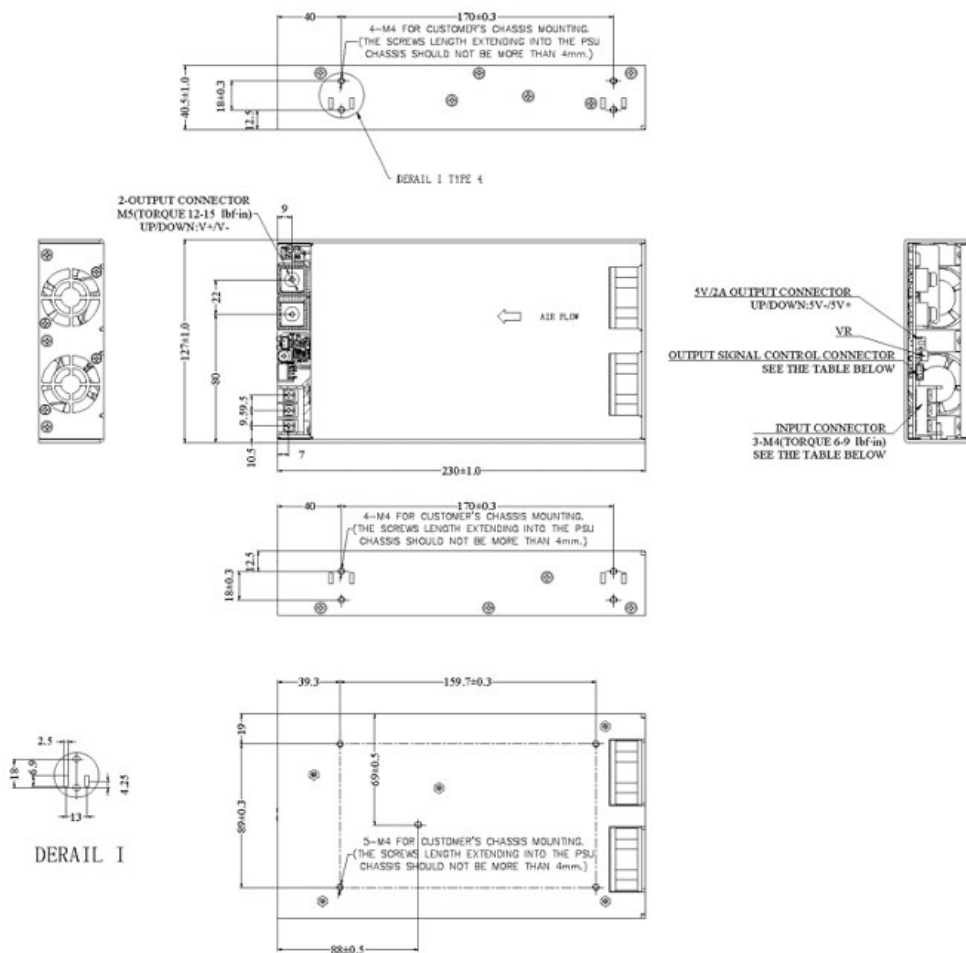
**Notes:**

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 130W.

**Derating Curve**



**Dimensions and Recommended Layout**

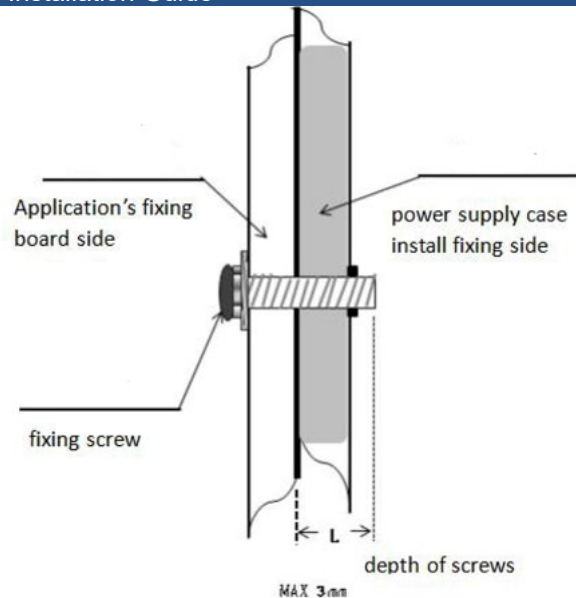


AC - DC

### Input and Output Terminals Description

PIN Number	PIN Function	PIN Number	PIN Function
L	AC Line	PG	Power Good
N	AC Neutral	SHARE	Share
	Earth	V+	DC output+
		V-	DC output-
		S+	Remote sense signal+
		S-	Remote sense signal-
		GND	GND
		RC+	Output ON/OFF, signal+
		RC-	Output ON/OFF, signal-
		5V	AUX 5V

### 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 using the power supply.
2. Before powering on the 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 powering on, please use a multimeter 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 it, 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 it.
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