AC – DC

Features

- Input Voltage: 100~240VAC/140~340VDC
- Standard ultra-thin product, height 30mm
- -30~+70℃ working temperature
- Approved to CE, CB, CCC, cULus
- Efficiency up to 86%
- Protection: OLP, OVP, SCP
- 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

Model Number	Output Voltage (V DC)	Output Current (A)	Output Power (W)	Input Voltage (V AC)	Efficiency (%)	Max Capacitive Load (μF)
64A-25FGB-3.3	3.3	0-5	16.5	100-240	75	6000
64A-25FGB-5	5	0-5	25	100-240	80	6000
64A-25FGB-12	12	0-2.1	25.2	100-240	82	1800
64A-25FGB -15	15	0-1.7	25.5	100-240	84	900
64A-25FGB -24	24	0-1.1	26.4	100-240	86	360
64A-25FGB -36	36	0-0.69	24.8	100-240	86	120
64A-25FGB -48	48	0-0.57	27.4	100-240	86	47

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

Input Specifications

Input Voltage	90-264VAC	
Rated Input Voltage (AC)	100-240VAC	
Rated Input Voltage (DC)	140-340VAC	
Input current	0.65A	100% load,115Vac
	0.33A	100% load,230Vac
Frequency Range	47~63Hz	
Inrush Current	120A/230/277VAC	
Leakage Current	240VAC/60Hz	

Output Specifications

	3.3v	5v	12v	15v	24v	36v	48V
Voltage Tolerance	±3.0%	±2.0%	±1.0%				
Voltage adj. Range	2.85-3.6	4.75-5.5	10.8-13.2	13.5-16.5	22-27	33-39	42-54
Ripple & Noise (pk-pk)	80mV		120mV			200mV	
Default voltage	3.3-3.4	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	2000ms/230VAC						
Hold up Time	20ms/230VAC						
Line Regulation	±0.5%	All					
Load Regulation	±2.0%	3.3v, 5v					
	±1.0%	Others					

General Specifications

Parameter		Notes	
MTBF		600KHrs	230Vac, 25℃,80% Load(MIL-HDBK-217F)
Dielectric test	Input-Output	3000 Vac	10mA@60S
	Input-Case	1500 Vac	10mA@60S
	Output-Case	500 Vac	10mA@60S
Ground Resistances		0.1Ω	
Insulation Resistance		100MΩ	500Vdc,60S
Working Temperature		-30°C - +70°C	20%~95% RH non-condensing (Refer to Derating Curve
Storage Temperature		-30°C - +80°C	10%~95%RH non-condensing

EMI Standards

	Notes	Standard	Criteria
CE	Conducted emission Test & Radiated Emission Test	EN55032	Class B
	Harmonic current emissions	EN 61000-3-2	Class A
	Voltage fluctuations & flicker	EN 61000-3-3	

EMS Standards

	Notes	Standard		Criteria
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 A
	Power Frequency Magnetic Field Test	EN 61000-4-8	30A/m	Criteria A
	Voltage Dips and Interruptions	EN 61000-4-11	0%/100%/0.5 Period	Criteria C
			70%/30%/25 Period	Criteria B
			0%/100%/250 Period	Criteria B

Safety & EMC

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

Protection

Overload Protection	110% -160%
	Hiccup mode recovers automatically after the fault condition is removed
Over Voltage Protection	110～140%
	Voltage-limited mode recovers automatically after the fault condition is removed
Short Circuit	Hiccup mode recovers automatically after the fault condition is removed

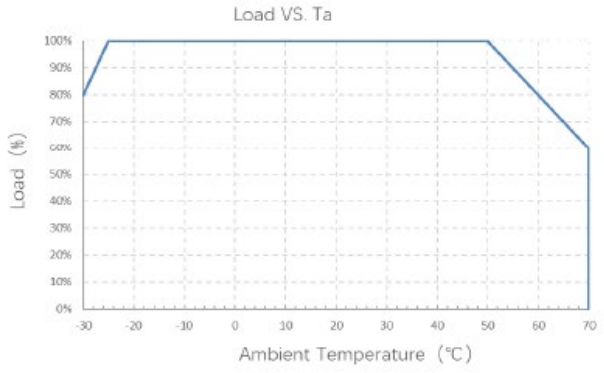
Environmental Characteristics

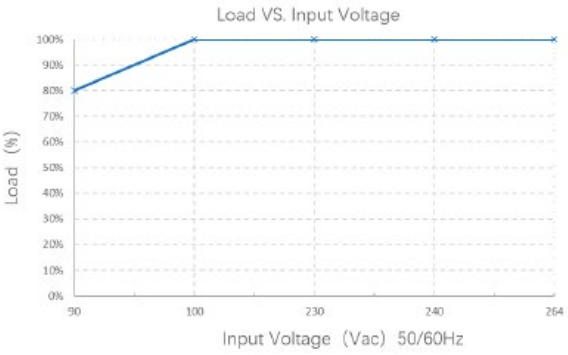
Working Temp & Humidity	-30~70℃ 20%~95%RH no condensing （refer to derating curve)
Storage Temp & Humidity	-30℃~80℃ 10%~95%RH no condensing
Temperature coefficient	±0.03% (0-50℃)
Altitude	5000m - The ambient temperature of derating of 0.5℃/100m for operating altitude higher than 2000m

Other Information

MTBF	100Khrs, 230VAC,25℃,80% Load (MIL-HDBK-217F)
Size	L99.0×W82.0×H30.0
Weight	190g

Derating Curve

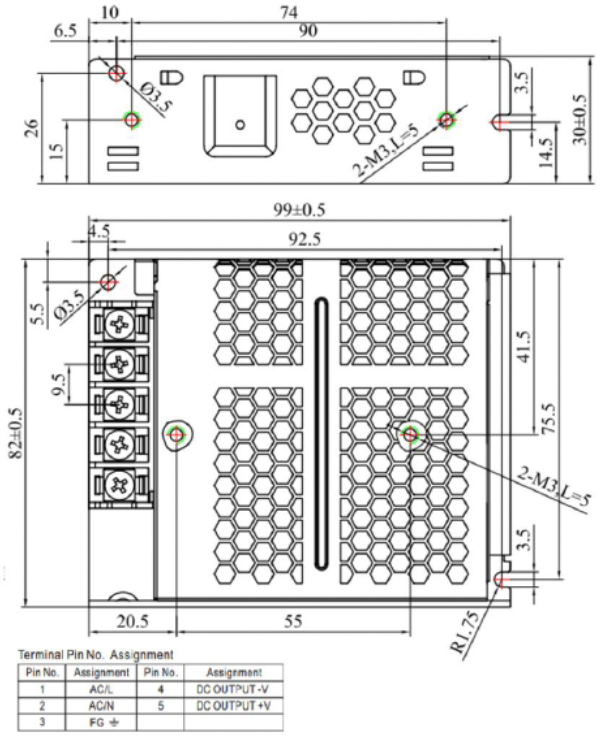




Notes：

1. 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.

Dimensions and Recommended Layout

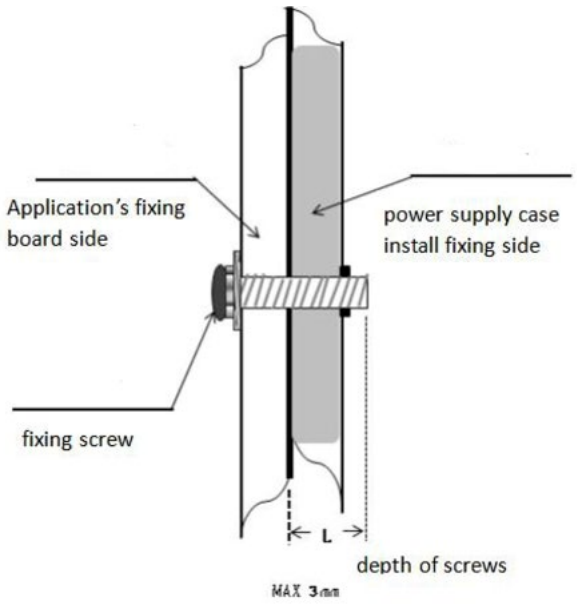


Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG ⏚		

PIN Number	PIN Function	PIN Number	PIN Function
L	AC Line	V+	DC Output +
N	AC Netural	V-	DC Output -
FG	Earth		

Installation Guide



Warning

Use mounting screws by M4*6mm,0.8N·m

Max depth of screws into the housing is 3mm

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