

Features

Universal Input Voltage Range
90-264V AC

Approved to UL, CE, SAA, FCC,
PSE, CCC, KC, GS, UKCA, RoHS &
REACH

IEC/EN/UL 62368-1 Safety Approved

88% Efficiency

IEC C14

Single Output 12V DC

Short Circuit Protection



14AK65WG-1200500W1-2.5 Series

60W External AC/DC Desktop Power Supply



UK
CA

CE



c⁺ PENDING



The 14AK65WG-1200500W1-2.5 Series is a regulated and reliable External Power Supply (PSU)>Desktop Power Supply. Designed for use in applications such as system-critical media and control infrastructure. This series is supplied with a IEC C14 input connection.

Model Number Information

14AK65WG-1200500W1-2.5

Series
Name

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max.) (mVp-p)
14AK65WG-1200500W1-2.5	12	5	60	88	200

Input Specifications

Rated Voltage Range	100-240VAC
Voltage Range	90-264VAC
Frequency Range	50/60Hz
Efficiency	88%
Primary current protection	An adequate internal fuse on the AC input line is
Leakage Current	3.5mA Max. At 240VAC input
No Load Power	0.21W Max, Input voltage 115V and 230V)

Output Specifications

DC Voltage	12V
Rated Current	5A
Rated Power	60W
Ripple & Noise(max.)	200mVp-p
Line Regulation	The line regulation is less than $\pm 5\%$ while measuring at rated load and
Load Regulation	No load voltage $12V \pm 5\%$ Full load voltage $12V \pm 5\%$
Rise Time	100 mS Max. at 115VAC input and output Max load
Hold up time	5 mS Min. at 115VAC input and output Max. Load

Protection

Over current protection	At rated AC input, output current in the range of $>6.0A$, will protect
Short Circuit	The power supply will be auto recovered when short circuit faults remove.
Over Voltage	When VCC more than 120% to 220% of rated voltage, power supply will protect, can resume normal work after troubleshooting

Environmental Characteristics

Working Temp	0 °C ~ +45 °C
Non-Operating	-20 ~ 80%
Working Humidity	5%~95% (Non Condensing)
Non Working Humidity	5%~95% (Non Condensing)

Safety & EMC

Safety Standards	IEC 62368-1/EN 62368-1/UL 62368-1
Radiated and Conducted Emission	EN55032, Class B for radiated and conducted emissions. EN55014, Class B for radiated and conducted emissions. EN55015, Class B for radiated and conducted emissions. FCC part 15: Class B for radiated and conducted emissions. GB9254, GB17625.1
Electrostatic Discharge Immunity	EN 61000-4-2, Air Discharge: $\pm 8kV$, - Contact Discharge: $\pm 4kV$ - Performance Criteria B. Electrostatic-discharge test by contact or air should be conducted with Static-discharge tester, energy storage capacitance of 150pF, and discharge resistance of 330Ω , 8KV air discharge, 4KV contact discharge.
Radiated Field Immunity	EN 61000-4-3, Frequency Range: 80-1000MHz, Field Strength: 3 V/m with 80% amplitude modulation of 1 kHz, Performance Criteria A, Radio-frequency electromagnetic field susceptibility test, RS 80-1000MHz, 3V/m, 80%AM(1KHz)
Fast Transient Immunity	EN 61000-4-4, - Power line: 1kV, - Signal line: 0.5kV, - Performance Criteria B

Surge Immunity

EN 61000-4-5, - 1.2/50 usec Open Circuit voltage, - 8/20 usec Short Circuit current, - Power line: 1kV,
- Line to Earth: 2kV, Lightning Surge Voltage shall be applied in differential and common mode to AC
input lines and cross.

Notes:

1. Tolerance: includes set up tolerance, line regulation and load regulation.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 0% to 100% rated load.
5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25°C of ambient temperature.
6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.
7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

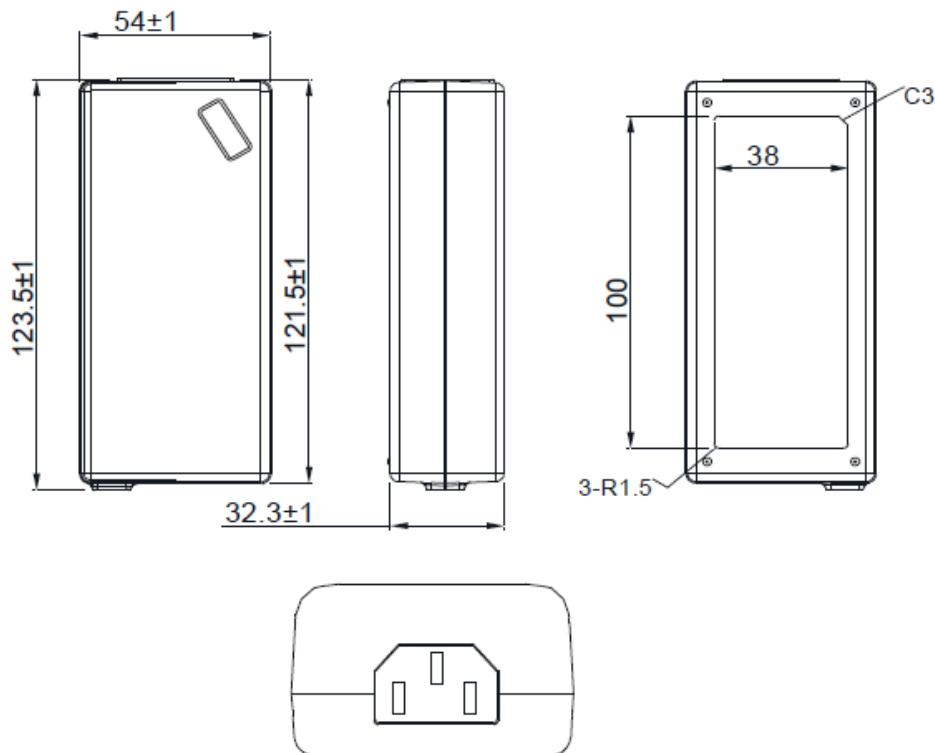
Dimensions & Weight

	Measurements	Weight
14AK65WG-1200500W1-2.5	121.5 x 54 x 32.3mm	234g Pcs

Packaging

Box Size	60pcs; 62.5x53x142mm
Outside box	430x255x280mm

Drawing



Label



Output plug & DC Cord

