

## Product Datasheet

# 130W/52V Desktop Power Adapter

(GWS-P3000-AP130-52C)



## FEATURE

- 100% full load aging test
- Power Input: 90VAC-264VAC
- Wide operating ambient temp (-20°C-65°C)
- High efficiency, long life time and high reliability
- Support over voltage, over current, over power, short circuit protection

## TECHNICAL SPECIFICATION

Model	GWS-P3000-AP130-52C
<b>Output</b>	
Group of Output	1
DC Voltage	52VDC
Output Current	0-2.5A

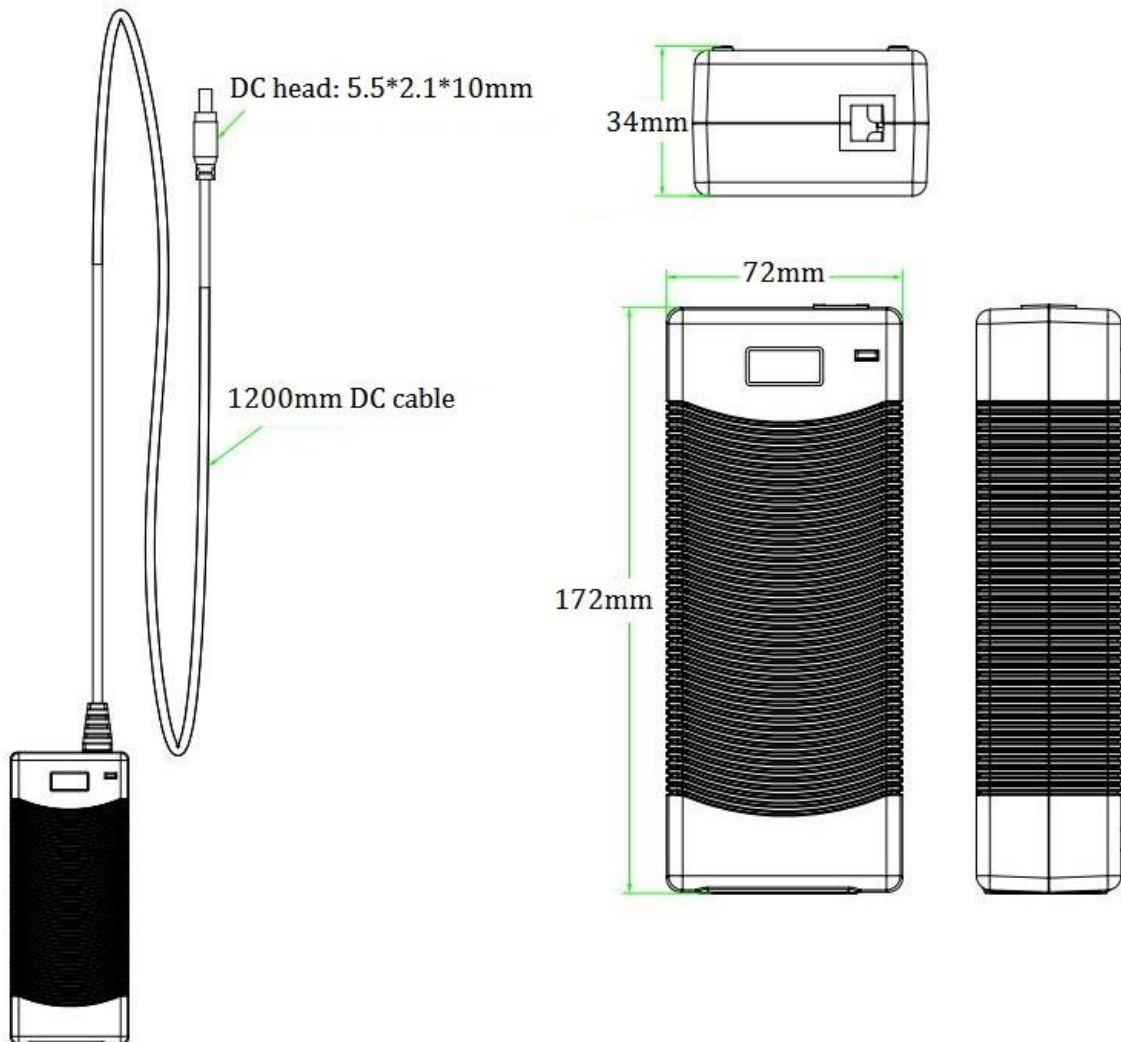
Range	
Ripple Noise	$0 < T_a \leq 55^\circ\text{C} @ \leq 150\text{mVp-p}$ , $-15 \leq T_a \leq 0^\circ\text{C} @ \leq 100\text{mVp-p}$
Voltage Regulation Accuracy	$\pm 1\%$
Source Adjustment	$\pm 1\%$
Load Regulation	$\pm 1\%$
Temperature Coefficient	$\pm 0.03\%/^\circ\text{C}$
Output Start Time	$\leq 3.0\text{S}$ (120VAC input, Full load), $\leq 2.0\text{S}$ (220VAC input, Full load)
Output Hold Time	$\geq 10\text{mS}$ (120VAC input, Full load), $\geq 20\text{mS}$ (220VAC input, Full load)
Voltage Overshoot	$< 5.0\%$
<b>Input</b>	
Input Voltage Range	90VAC-264VAC
Input Rated Voltage Range	100VAC-240VAC
Frequency Range	47Hz-63Hz
Efficiency	$> 91\%$
Input Current	$< 1.1\text{A}$
Start Inrush Current	$< 40\text{A} @ 300\text{VAC}$ Cold start
Leakage Current	Input to output $\leq 0.25\text{mA}$
<b>Protection</b>	
Output Over Power	156W-195W swing
Output Over Voltage	59V-60V swing
Output Over Current	3A-3.75A swing
Output Short Circuit	It can be short-circuited for a long time, and it can automatically recover after eliminating the short-circuit
<b>Operation Environment</b>	
Operation TEMP /	$-20^\circ\text{C} - 65^\circ\text{C}$ , 20%-90%RH No condensing

Humidity	
Storage TEMP / Humidity	-40°C-85°C, 10%-95%RH No condensing
Temperature Coefficient	±0.03%/°C (0-50°C)
Vibration	Frequency range 10-500Hz, acceleration 2G, each sweep cycle 10min. 6 sweep cycles along the X, Y, and Z axes
Impact	Acceleration 20G, duration 11ms, 3 shocks along X, Y, and Z axis each
Altitude	2000m
<b>Safety and EMC Standard</b>	
Security Standard	GB4943/EN62368-1
Dielectric Strength	Input - Output: 3KVAC/10mA, Input - Earth: 1.5KVAC/10mA, Output- Earth: 0.5KVDC/10mA , Test time is 1min
Insulation Resistance	Input - Output: 100M ohms, Input - Case:100M ohms Output - Case: 100M ohms
Electromagnetic Interference	EN55022 Class A
Harmonic Current	IEC61000-3-2 Class A Equipment Requirement
Electromagnetic Immunity	EN61000-4-2, 4,5,6,8,11 ENV50204, Class A heavy industry standard
<b>Others</b>	
Certification	CCC, CE, FCC, RoHS
MTBF	100,000Hrs AT 25°C, MIL-217 Method 2 Components Stress Method
Dimension	172*72*34mm
Warranty	1 year
Notes	1. Unless otherwise specified, all specifications are rated input, rated load, and measured at an ambient temperature of 25°C. 2. Ripple noise test method: use a 12# twisted pair cable, and the terminals

should be connected in parallel with 0.1uF and 10uF capacitors, and measure under the 20MHz bandwidth of the oscilloscope.

3. The power supply will be installed on the terminal equipment as a component, and the terminal equipment still needs to meet the EMC conditions.

## DIMENSION





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