130W/52V Desktop Power Adaptor

(GWS130-520250GM)

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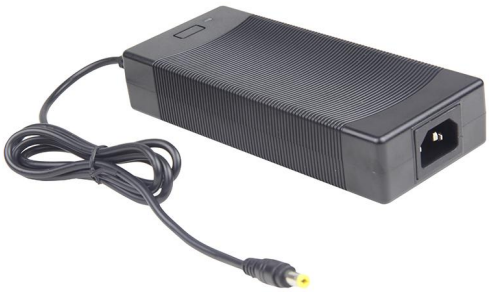

- Power Input: AC 90~264V
- Support production for short circuit/over current/over voltage
- Wide operation temperature range: -20℃~65℃
- 100% full load aging test
- High efficiency, long life time and high reliability
- Meet EMC Standard

Application

- Consumer electronic devices
- Telecommunication devices
- Security devices
- Office facilities

: Description

GWS130-520250GM is a highly reliable, 130W desktop style single-output green adaptor series. This product is a class I power unit, equipped with a standard AC inlet and adopting the input range from 90VAC to 264VAC. It can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 92% and the extremely low no load power consumption below 0.15W. The supreme feature allows the adaptor to save the energy when it is is either under the operating mode or the standby mode. It utilizes the 94V-0 flame retardant plastic case. GWS130-520250GM is certified for the international safety regulation.

GWSpower

: Technical Specification

Model	GWS130-520250GM	
Output	Group of Output	1
	DC Voltage	52V
	Default Output Voltage @25℃	50.00-53V （Vin：220VAC / LOAD：0A）
	Output Rated Current	2.5A
	Output Current Range	0-2.5A
	Output Rated Power	130W
	Total Peak Output Power	Up to 195W(Sustainable time 10S/220VAC)
	Peak Output Current	3.75A(Sustainable time 10S/220VAC)
	Ripple noise	0＜Ta≤65℃; P-P≤100mV
		-20≤Ta≤0℃; P-P≤100mV
	Output Regulation Range @25℃	47~54V
	Stabilized Voltage Precision @-20~65℃	±2% (50.96V-53.04V)
	Line Regulation @-20~65℃	±0.5%
	Load Regulation @-20~65℃	±2% (50.96V-53.04V)
	Temperature Coefficient @-20~65℃	±0.03%/℃
	Output Start Time @25℃	≤2S /220Vac input, Full load)
	Output Hold Time @25℃	≥10mS(220Vac input, Full load)
	Voltage Overshoot @-20~65℃	≤5%
Input	Input Voltage Range	90~264VAC
	Input Rated Voltage Range	100~240VAC
	Frequency Range	47Hz~63Hz
	Starting Voltage @-20~65℃	90Vac
	Efficiency @ 25℃	≥90%（230VAC FULL LOAD）
	Input Current @25℃	＜2.7A
	Inrush Starting Current	＜50A@220Vac Cold start

	@25℃		
	Power Factor @25℃	PF>0.6 (at full load)	
Protection @-20~65℃	Output	Over power	156~195W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.)
		Over voltage	57~70V Swing machine (Short circuit the Pin1-2 of U8, swing machine. Output recovery to normal after removing the short circuit) Note: Do not use external voltage.
		Over current	3~3.75A Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-current released.)
		Short circuit	It achieves the long-term short circuit by connecting a sufficient cross-sectional area copper cable (Length at 15cm±5cm) with power output port. Self-recovery to normal after removing the short circuit.
Operation Environment	Operation Temperature and Humidity		-20~65℃; 20%~95%RH
	Storage Temperature and Humidity		-40℃~85℃; 10%~95%RH non-condensing
	Libration		Frequency range: 10 ~ 500Hz, Acceleration: 2G, Each sweep cycle 10min. Six sweeps along the X, Y, and Z axis
	Surge		Acceleration: 20G, Duration time: 11mS, Three shocks along X, Y and Z axis
	Altitude		2000m
Safety and EMC Standard @25℃	Security Standard		GB4943/EN60950 ■Reference □Certification
	Dielectric Strength		Input—Output:3KVac/10mA; Input--Case:1.5KVac/10mA; Output---Case:0.5KVDC/10mA Time for each testing is 1min.
	Grounding Test		Test Condition: 32A/2min; Ground bond: ＜0.1 ohms.
	Leakage Current @25℃		Input to GND ≤3.5mA; Input to output ≤0.25mA (Input 264Vac, 63Hz)
	Insulation Resistance		Input-Output: 10M ohms; Input-Case: 10M ohms; Output-Case: 10M ohms;

	EMI	Conducted Interference	EN55022, EN55024, FCC PART 15 CLASS B
		Radiated Interference	EN55022, EN55024, FCC PART 15 CLASS B
	Harmaonic current		EN61000-3-2 CLASS D
	EMS	Conducted Emission	EN61000-4-6 Level3
		Radiated Emission	EN61000-4-3 Leve3 criterion B
		Power Frequency Emission	EN61000-4-8 Level3
		Electrostatic Emission	EN61000-4-2 Level4 criterion B
		EFT	EN61000-4-4 Level4 criterion B
		Surge	EN61000-4-5 Level4 criterion B
		Dip and Interruption	EN61000-4-11