

AC/DC Charge

GHY-PD-1820 A+C PD fast charge series

GHY-SOU
广 浩 源 科 技



Product Feature

- Global universal voltage: 90-264VAC 50/60Hz
- Pin: CN,EU,US, UK, AU standard
- Operating temperature range:-20℃ to +40℃
- Output short circuit, overcurrent, and over temperature protection
- High efficiency and reliability
- Stable voltage output, low ripple noise
- Size: 44.5 x 40 x 27.5 mm ± 0.5MM
- 1-year warranty



This series of power supplies has the advantages of global input voltage range, low power consumption, high efficiency, high reliability, and safe isolation. The product is safe and reliable, with good EMC performance. The EMC and safety specifications meet the IEC/EN6100-4, CISPR32/EN5032, and UL/EN/IEC62368 standards. This series of products is widely used in industries such as network equipment, office equipment, small appliances, and electronic products. When applied in environments with poor electromagnetic compatibility, reference must be made to the application circuit.

Model Selection Table

Certificate	Model Number	Power output	Nominal output voltage and current (Vo/Io)	Efficiency (230VAC/%, Typ.)	Maximum Load (A)
FCC CE ROHS UKCA	GHY-PD-1820	20W	1#C:5/9/12V 20W	86.00%	1.67A
	--	--	2#A:5/9/12V 18W	--	1.5A
	--	--	3#-4#A:5V3A 15W	--	3A
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--
	--	--	--	--	--

Input characteristics

Item	Working conditions	Min.	Typ.	Max.	unit
Input Voltage	AC input	90	--	264	VAC
Input frequency		47	--	63	Hz
Input Current	115VAC	--	--	250	mA
	230VAC	--	--	150	
Impulse current	115VAC	--	35	--	A
	230VAC	--	50	--	
hot plugging		Support			

Output characteristics

Item	Working conditions	Min.	Typ.	Max.	unit
Voltage accuracy		--	±5	--	%
Load regulation rate	Full load	--	±5	--	
Ripple noise*	20MHz Bandwidth (peak to peak)	--	--	150	mV
Standby power		--	--	0.1	W
Temperature coefficient		--	±0.02	--	%/℃
Short circuit protection		Hiccup type, capable of long-term short circuit and self recovery			
Overcurrent protection		≥120% Io , self recovery			
Over Temperature Protection		0	≥40	--	℃
Power-off protection time	230VAC input	--	35	--	ms

Note: The testing method for ripple and noise adopts the parallel line testing method. For specific operation methods, please refer to the "Application Guide for AC-DC Switching Power Supply"

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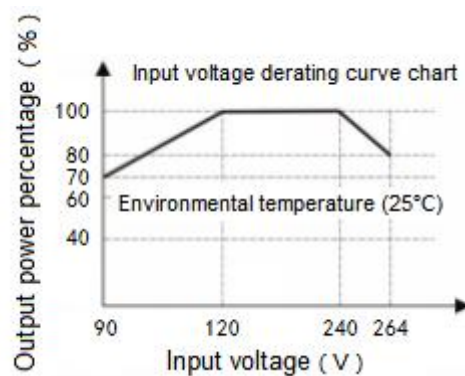
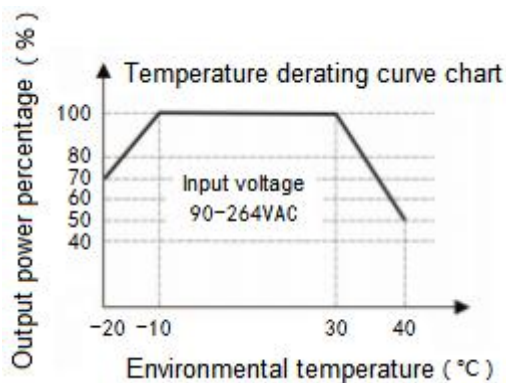
General characteristics

item		Working conditions	Min.	Typ.	Max.	unit
Isolation voltage	input-output	Test time 1 minute, leakage current<5 mA	3000	--	3750	VAC
Operation temperature			-20	--	+40	℃
Storage temperature			-25	--	+65	
Storage humidity			--	--	90	%RH
Switching frequency			--	65	--	kHz
Power derating	-20℃ to - 10℃		2.0	--	--	% /℃
	+30℃ to +40℃		2.5	--	--	
	90VAC - 100VAC		0.375	--	--	% /VAC
	240VAC - 264VAC		0.833	--	--	
Safety standards		Passed: EN IEC 62368-1: 2020+A11: 2020 GB 4943. 1-2022 Conforms to: GB/T 9254. 1-2021 GB 17625. 1-2022 UL/IEC62368- 1 & BS EN 62368-1				
MTBF			MIL-HDBK-217F@25℃ >30,000 h			

EMC characteristics

EMI	Conducted Disturbance	CISPR32/EN55032	CLASS B	
	Radiated Disturbance	CISPR32/EN55032	CLASS B	
EMS	Electrostatic Discharge	IEC/EN61000-4-2	Contact ±6KV	Perf. Criteria B
	Radiated immunity	IEC/EN61000-4-3	10V/m	Perf. Criteria A
	Pulse group immunity	IEC/EN61000-4-4	±2KV	Perf. Criteria B
	Surge immunity	IEC/EN61000-4-5	line to line ±1KV	Perf. Criteria B
	Conducted disturbance immunity	IEC/EN61000-4-6	10Vr.m.s	Perf. Criteria A
	Voltage sag, drop, and short-term interruption immunity	IEC/EN61000-4-11	100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods	Perf. Criteria B

Product characteristic curve



Physical property

Shell size	44.5 x 40 x 27.5 mm ±0.5MM
Weight	65g(Typ.)
Cooling method	Natural air cooling

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Characteristics of shell pins

Type	CN,EU,US,UK,AU standard
Plastic material	material, environmental protection, fire prevention
Pin hardware	Copper feet



CN



US



EU



AU



UK

DC plug specifications

Ttype	Type-c + A
DC head specifications	--
length	--

Power: PD20W/QC18W

Specifications: A+C

Single C port =20W Supports 5V-9V-12V 1.67A

Single QC=18W Support 5V-9V-12V 3A

Port A + port C =5V3A 15W

Note:

1. For more detailed parameter information, please contact the sales personnel.
2. All indicators in this manual are measured at Ta=25 ℃, humidity<75%, nominal input voltage, and output rated load;
3. The testing methods for all indicators in this manual are based on our company's enterprise standards;
4. Our company can provide product customization, and specific requirements can be directly contacted by our technical personnel;

Contact information/联系方式

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