



GaNPower International Inc.

WWW.IGANPOWER.COM  
230 -3410 LOUGHEED HWY  
VANCOUVER, BC, V5M 2A4 CANADA

# iGaN1202C2A

120W, 4-port GaN PD charger, with 2 USB-C and 2 USB-A ports

Preliminary Datasheet version: 1.0

## Features

Power	Output Ports	Voltage (Input)
120W	4 (2x USB-C, 2x USB-A)	120-240V <sub>AC</sub>

- 120W Fast charger
- Multiple ports (2 USB-C & 2 USB-A ports)
- Compact design (foldable plug design)
- FCC & ETL certified
- Conforms to standards UL62368-1 & C22.2#62368-1
- Safety features included (protection for overvoltage, short-circuit & output overcurrent)
- 1-year warranty provided
- Available in 2 colors (white & black)

## Applications

- Class II equipment
- Wall-mount charger for laptop, tablet, phone, headphones
- Compatible with Android and Apple products



Foldable Plug

Compact Size  
8 cm x 8 cm x 3 cm





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## Description

GaNPower International introduces the GaNPower PD Charger, built with GaN technology (two GPI65010DF56 GaNs from GaNPower International). This powerhouse of a charger enables lightning-fast charging for up to 4 devices simultaneously, with 2 USB-C and 2 USB-A ports, with a combined output of 120W. Our charger is certified by ETI, ensuring its safety for use in any household setting. The foldable plug design makes it extremely portable. Upgrade your charging game with our charger and enjoy fast, efficient, and safe charging for all your devices!

## Device Characteristics

Basic Parameters Overview							
	Parameters			Value			
1	Input			120-240V ~ 50/60Hz 2.1A			
2	Output			5V, 9V, 12V, 20V			
3	Current Output (Max.)			3A			
4	Power			120W			
5	Operating Temperature			25 °C			
6	Dimensions			3.1" L x 3.1" W x 1.1" H (80mm x 80mm x 30mm)			
GPI65010DF56 (N-channel 650V 10A GaNPower HEMT in 5x6 DFN package)				Test data			
	Static Parameters		Conditions (T <sub>J</sub> =25 °C)	Min	Typical	Max	Unit
1	V <sub>GS(TH)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> , I <sub>D</sub> =7mA	0.9	1.4	2.9	V
2	BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V, I <sub>D</sub> <25 μA		650		V
3	R <sub>DS(ON)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> =6V, I <sub>D</sub> =2A	87	120	162	mΩ



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Output (Port Utilization)			
Ports	USB type		Output (DC)
1 port	USB-C1/USB-C2		5V/9V/12V=3A/20V=5A
	USB-A1/USB-A2		5V/9V/12V=3A
2 ports	USB-A1 + USB-A2		5V=2.4A
	USB-A1/USB-A2 + USB-C1/USB-C2	USB-A1/USB-A2	5V=2.5A
		USB-C1/UCB-C2	5V/9V/12V/20V=3A
	USB-C1 + USB-C2		5V/9V/12V/20V=3A
3 ports	USB-A1 + USB-A2 + USB-C1/USB-C2	USB-A1/USB-A2	5V=2.5A
		USB-C1/UCB-C2	5V/9V/12V/20V=3A
	USB-A1/USB-A2 + USB-C1 + USB-C2	USB-A1/USB-A2	5V=3A/9V/12V=2A
		USB-C1	5V/9V/12V/20V=3A
		UCB-C2	5V/9V=3A /12V=2.4A
4 ports	USB-A1/USB-A2		5V=2.4A
	USB-C1		5V/9V/12V/20V=3A
	USB-C2		5V/9V = 3A/ 12V=2.4A



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## Further Information

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**Data Source**— Data here are based on recent tests but all parameters may not be up to date. Actual final test data from packaging production are available for selected customers upon request.