









(NGE100: Universal Version)

(NGE100U: US Version)









































■ Features

- · One model for multi-devices
- MEAN WELL Patent Application Number: 202330347779.4
- Universal version: Interchangeable AC plug(NGE100); US version: Non-interchangeable AC folding plug(NGE100U) · Earphone
- · Global certified
- · 90~264Vac Universal AC input
- USB-2C2A, independent 4-port fast charging
- · Each USB-C port offers max.100W
- Support QC2.0, QC3.0, PD3.0
- · Auto-detection 5V/9V/12V/15V/20V
- · Protections: Short circuit / Overload / Over temperature
- · No load power consumption < 0.3W
- · Energy efficiency Level VI
- · Compact size (62*30*85.5mm)
- Type-C cable with charging and data transmission included (100cm)
- · 3 years warranty

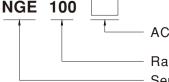
Description

The NGE100 series is a 100W gallium nitride (GaN) universal fast charger with potassium nitride. This product offers 2 models to choose from: the universal version NGE100, which can be paired with 6 types of AC plugs (EU, US, UK, AU, CN, KR), making it ideal for business travel. Additionally, there is a US version, NGE100U, equipped with a 90-degree vertically folding US plug that is suitable for countries with 2 flat pins.

The NGE100 utilizes gallium nitride (GaN) technology and complies with Level VI of energy efficiency standards. It has a no-load power consumption of less than 0.3W and boasts an efficiency of up to 88%. With compact dimensions (62*30*85.5 mm), it features two USB-C and two USB-A charging ports, allowing simultaneous charging of multiple devices. The charger supports various fast charging protocols, including PD3.0 and QC3.0. Upon plugging in a device, it automatically recognizes and adjusts the charging voltage (5V/9V/12V/15V/20V) and allocates charging power. All ports support independent fast charging, and either USB-C1 or C2 supports a rapid 100W charge, making it suitable for charging various electronic devices such as smartphones, tablets, laptops, gaming consoles, cameras, AirPods, and more.

Furthermore, this product not only has built-in short circuit/overload/over temperature protections, but also has a 94V-0 high flame-retardant casing; obtained safety certifications from CB, DEKRA, UL, PSE, BSMI, CCC, RCM, KC, EAC, CE, UKCA, and FCC along with a 3 years warranty, it is a reliable, safe, and durable green charger.

Model Encoding



- AC Plug Blank: AC Pin fixed; Universal version with interchangeable plugs U: Foldable AC Pin; US version with non-interchangeable plug

Rated wattage Series name

Applications

- · Mobile phone
- Tablet
- Laptop
- · Game devices

MW Search: https://www.meanwell.com/serviceGTIN.aspx



100W 4-Port USB GaN Fast Charger

SPECIFICATION

MODEL NO.		NGE100 O									
		○ =Blank, U									
	USB C1 (100W	•	PD3.0, 5V, 9V, 12V, 15								
	USB C2 (100W	<u> </u>	PD3.0, 5V , 9V , 12V , 15V/3A , 20V/5A								
	USB A1 (18W r	nax.)	QC3.0, 5V/3A, 9V/2A,	-							
	USB A2 (18W r	nax.)	QC3.0, 5V/3A, 9V/2A,	12V/1.5A,	20V/0.9A						
	TOTAL POWER		100W max.								
OUTDUT			USB C1: 5V/3A , USB C2: 5V/3A , USB A1: 5V/1.5A , USB A2: 5V/1.5A								
OUTPUT	DC VOLTAGE Note.3 RIPPLE & NOISE (max.) Note.4			9V		12V	15V	20V			
		, ,		200mVp-p		200mVp-p	200mVp-p	200mVp-p			
		ERANCE Note.5		±5.0%		±4.0%	±4.0%	±4.0%			
	LINE REGULA		±1.0%	±1.0%		±1.0%	±1.0%	±1.0%			
	LOAD REGULA		±5.0%	±5.0%	(445) (4.0	±4.0%	±4.0%	±4.0%			
	SETUP, HOLD		1000ms,30ms/230VAC 2000ms,10ms/115VAC at USB C1 20V/5A 90 ~ 264VAC								
	FREQUENCY										
			47 ~ 63Hz								
	POWER FACTO		PF>0.92/230VAC; PF>0.98/115VAC								
INPUT	EFFICIENCY (iyp.)	88% / 20V 5A								
	AC CURRENT INRUSH CURR	ENT (max)		1.6A/115VAC 0.8A/230VAC							
		• • •	65A/115VAC 95A/230VA								
	LEAKAGE CUI	AINENT (IIIdX.)	0.5mA/240VAC								
DDATEATION	OVERLOAD 101 ~ 150% rated output power										
PROTECTION	OVED TEMPS	ATURE				·	i is removed				
	OVER TEMPER		Shut down o/p voltage, recovers automatically after temperature goes down								
	WORKING TEMP. WORKING HUMIDITY		-30 ~ +70 °C (Refer to "Derating Curve")								
ENVIRONMENT	STORAGE TEN		20% ~ 90% RH non-condensing -20 ~ +85°C, 10 ~ 95% RH non-condensing								
LITTINOMIFIEM	TEMP. COEFFI										
	VIBRATION		±0.03% / ℃ (0 ~ 40 ℃) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STAN	DARDS	UL62368-1, DEKRA BS EN/EN62368-1, BSMI CNS15598-1, PSE J62368-1, CCC GB4943.1-2022, RCM AS/NZS 62368-1, KC KC62368-1, EAC TPTC004 approved (Please refer to next page for more details)								
	WITHSTAND V	OLTAGE	I/P-O/P:3KVAC								
	ISOLATION RE			0VDC / 25°C	/70% RH	-					
	.OOLAHON KE	JOIO IAITOL	/P-O/P:100M Ohms / 500VDC / 25 °C / 70% RH Parameter Standard Test Level / Note								
			. arameter	-		SISPR32)FCC PART 15 /					
			Conducted emission	C	CISPR22, CAN IČES-3(B)/NMB-3(B)		Class B	Class B			
					B/T 9254.1-2021						
	EMC EMISSION		Padiated emissis =		BS EN/EN55032(CISPR32)FCC PART 15 /		Class B	Class B			
			Radiated emission		CISPR22, CAN ICES-3(B)/NMB-3(B) GB/T 9254.1-2021						
			Harmonic current		BS EN/EN61000-3-2.GB 17625.1-2022		Class A	Class A			
SAFETY &			Voltage flicker		BS EN/EN61000-3-2, GB 17023: 1-2322						
EMC (Note. 9)			Ŭ				Test Level /No	nta			
(14016. 3)			Parameter		tandard						
			ESD		S EN/EN61000-			air; Level 2, 4KV contact			
			RF field susceptibility	В	S EN/EN61000-	1-3	Level 2, 3V/I	m			
	EMC IMMUNITY		EFT bursts	В	S EN/EN61000-	1-4	Level 2, 1KV	1			
			Surge susceptibility	В	S EN/EN61000-	1-5	Level 3, 1KV	//L-N			
			Conducted susceptibility	В	S EN/EN61000-	1-6	Level 2, 3V				
			Magnetic field immunity		S EN/EN61000-		Level 1, 1A/	m			
			,					> 95% dip 0 5 periods, 30% dip 25 periods,			
			Voltage dips , interruption BS EN/EN61000-4-11 P35% dip 0 3 periods, 30% dip 23 periods, 95% interruptions 250 periods								
	MTBF		336.4Khrsmin. MIL-HDBK-217F(25°C) 3008.3Khrsmin. Telcordia TR/SR-332 (Bellcore) (25°C)								
	DIMENSION		62*30*85.5mm (L*W*H)								
		MAIN BODY	NGE1001: 338g; 28pcs/ 13.1Kg / 1.65CUFT NGE100U: 249g; 28pcs/ 10.6Kg / 1.65CUFT								
OTHERS	PACKING	POWER UNIT	NOE 100 . 000g , 20pcs/ 10. INg / 1.00COF1 NOE 1000. 2488 , 20pcs/ 10.0Ng / 1.00COF1								
	(Refer to page 7)	AC PLUGS	Included 6 types of AC Plu	igs for NGE1	00						
		Type-C Cable	Included for NGE100 / NG	E100U							
	1. All paramete	rs NOT specially	y at 230VAC input, rated load, 25°C 70% RH ambient.								
		•	level VI will not affect the r		•	voltages.					
			nt measure by plug terminal & 50% load. If at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F & 47 μ F parallel capacitor.								
			If at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F & 47 μ F parallel capacitor. Derance, line regulation, load regulation.								
NOTE		•	from low line to high line at rated load.								
	7. Load regulati	on is measured	from 0% to 100% rated load.								
	8. Derating may		der low input voltages. Please check the derating curve for more details.								
	o TI		red as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the e on how to perform these EMC tests, please refer to "EMI testing of component power supplies."								
			•				•	•			
	EMC directiv	es. For guidance	•	EMC tests,	please refer t		•	•			



■ Interchangeable AC Plug Specifically for NGE100

Model NO.			NGE100U (US Version)				
AC plug	EU	US	Non-Interchangeable Type (Foldable AC Pin)				
Certificate	CB	≥DEKRA		cŲLus 🔏	: (m) &	R33100 R0HS	CB c U us A C

■ Interchangeable AC Plug Installation Steps (Convertible with NGE100 only)

Step1	Step2				
	The second secon				
Slide in AC converter along the guided rail between the metal prongs until it is locked in (with a "click" sound).	Check if the new plug type is stable and correct before use.				

Note:

NGE100 is interchangeable type, it needs to be used along with one of the AC inlet plug (EU,US,UK,AU,CN,KR).

■ Recommended Configuration

For 1 Port Charging



For 2 Ports Charging



For 3 Ports Charging

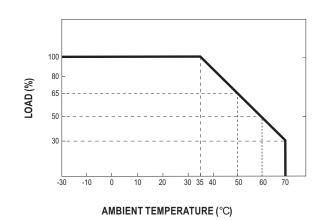


For 4 Ports Charging

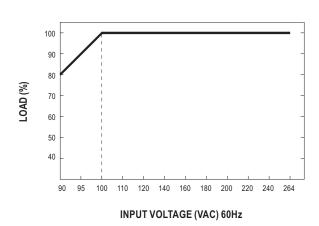


- 1. USB C1/C2 Type-C support PD (Power Delivery) 2.0 and 3.0; USB A1/A2 Type-A support QC (Quick Charge) 3.0
- 2. Due to the fast charge protocol identification and power allocation, when multiple ports are used at the same time, normal charging will be resumed after 1 to 3 interruptions, which is a protocol allocation security protection.

■ Derating Curve



■ Static Characteristics

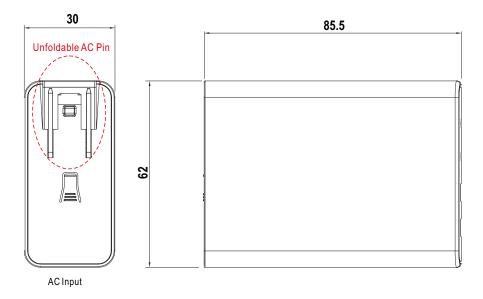


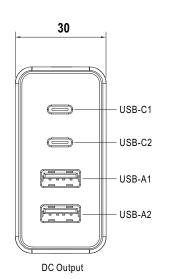


■ Mechanical Specification

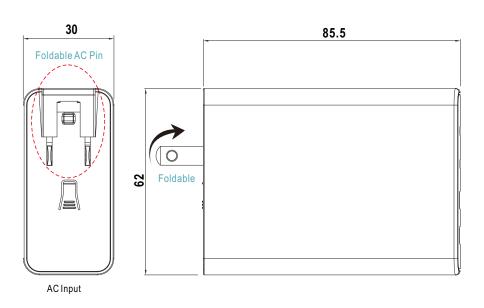
Unit:mm

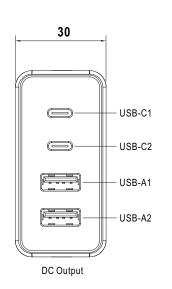
X NGE100 (Universal Version - AC Pin fixed; With interchangeable plugs)





X NGE100U (US Version - Foldable AC Pin; With non-interchangeable plug)







■ Application

X One For Multi-Devices



iOS& Android Phone



Tablet



Laptop



Game Console



Headset



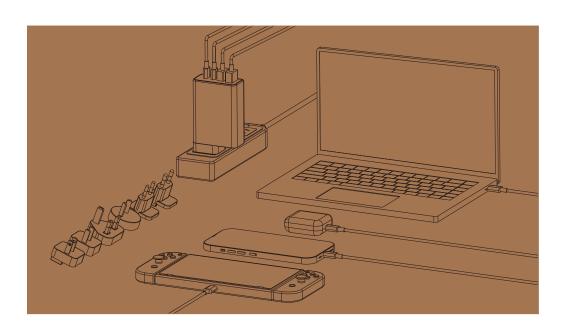
Fan



Humidifier



More Devices





Accessory List

** NGE100 : Includes 6 types of AC Plugs(EU, US, UK, AU, CN, KR) \(\text{ a 100cm USB Type-C cable} \) a drawstring accessory pouch NGE100U: Includes a 100cm USB Type-C cable

Model NO.	Item	Photo							
NGE100	AC Plugs(EU, US, UK, AU, CN, KR)		4-10						
	100cm USB Type-C cable								
	Drawstring Accessory Pouch								
NGE100U	100cm USB Type-C cable								

■ Packing

Model NO.	Dimension	Pho	Per Package	Max.Q'TY /Carton (pcs)	One Carton G.W	
	(L*W*H)	Outer Inside				weight
NGE100	128mm 57mm	NGE100 100W Fact Charger The second A	Type Colde Included	442g	28pcs	13.1Kg
NGE100U	190 mm 51mm	NGE100U TOWN Fast Changer	Type-Cable Included	353g	28pcs	10.6Kg

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html