



(NGE100: Universal Version)



(NGE100U: US Version)



GaN PD QC
3.0 3.0



■ 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)
- 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 universal fast charger with gallium nitride (GaN) technology. This product offers 2 models to choose from: the universal version **NGE100**, which can be paired with 7 types of AC plugs (EU, US, UK, AU, CN, KR, IN), 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, BIS, EAC, CE, UKCA, and FCC along with a 3 years warranty, it is a reliable, safe, and durable green charger.

■ Model Encoding

NGE 100

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

SPECIFICATION		NGE100 ○					
		○ =Blank, U					
OUTPUT							
USB C1 (100W max.)		PD3.0, 5V , 9V , 12V , 15V/3A , 20V/5A					
USB C2 (100W max.)		PD3.0, 5V , 9V , 12V , 15V/3A , 20V/5A					
USB A1 (18W max.)		QC3.0, 5V/3A , 9V/2A , 12V/1.5A , 20V/0.9A					
USB A2 (18W max.)		QC3.0, 5V/3A , 9V/2A , 12V/1.5A , 20V/0.9A					
TOTAL POWER		100W max.					
FOR 5V ONLY(45W max.)		Note.2	USB C1: 5V/3A , USB C2: 5V/3A , USB A1: 5V/1.5A , USB A2: 5V/1.5A				
DC VOLTAGE		Note.3	5V	9V	12V	15V	20V
RIPPLE & NOISE (max.)		Note.4	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
VOLTAGE TOLERANCE		Note.5	±5.0%	±5.0%	±4.0%	±4.0%	±4.0%
LINE REGULATION		Note.6	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION		Note.7	±5.0%	±5.0%	±4.0%	±4.0%	±4.0%
SETUP, HOLD UP TIME		1000ms,30ms/230Vac 2000ms,10ms/115Vac at USB C1 20V/5A					
INPUT							
VOLTAGE RANGE		Note.8	90 ~ 264Vac				
FREQUENCY RANGE		47 ~ 63Hz					
POWER FACTOR		PF>0.92/230Vac; PF>0.98/115Vac					
EFFICIENCY (Typ.)		88% / 20V 5A					
AC CURRENT		1.6A/115Vac 0.8A/230Vac					
INRUSH CURRENT (max.)		65A/115Vac 95A/230Vac					
LEAKAGE CURRENT (max.)		0.5mA/240Vac					
PROTECTION							
OVERLOAD		101 ~ 150% rated output power					
		Protection type : Hiccup mode,recovers automatically after fault condition is removed					
OVER TEMPERATURE		Shut down o/p voltage, recovers automatically after temperature goes down					
ENVIRONMENT							
WORKING TEMP.		-30 ~ +70℃ (Refer to "Derating Curve")					
WORKING HUMIDITY		20% ~ 90% RH non-condensing					
STORAGE TEMP., HUMIDITY		-20 ~ +85℃, 10 ~ 95% RH non-condensing					
TEMP. COEFFICIENT		±0.03% / °C (0 ~ 40℃)					
VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC		Note.9					
SAFETY STANDARDS		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,BIS IS13252(part1):2010/IEC60950-1:2005, EAC TPTC004 approved (Please refer to next page for more details)					
WITHSTAND VOLTAGE		I/P-O/P:3KVac					
ISOLATION RESISTANCE		I/P-O/P :100M Ohms / 500VDC / 25 °C/ 70% RH					
EMC EMISSION		Parameter	Standard			Test Level / Note	
		Conducted emission	BS EN/EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B) GB/T 9254.1-2021, KS C 9832			Class B	
		Radiated emission	BS EN/EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B) GB/T 9254.1-2021, KS C 9832			Class B	
		Harmonic current	BS EN/EN61000-3-2,GB 17625.1-2022			Class A	
		Voltage flicker	BS EN/EN61000-3-3			-----	
EMC IMMUNITY		BS EN/EN55035(CISPR35), KS C 9835					
		Parameter	Standard			Test Level /Note	
		ESD	BS EN/EN61000-4-2			Level 3, 8KV air; Level 2, 4KV contact	
		RF field susceptibility	BS EN/EN61000-4-3			Level 2, 3V/m	
		EFT bursts	BS EN/EN61000-4-4			Level 2, 1KV	
		Surge susceptibility	BS EN/EN61000-4-5			Level 3, 1KV/L-N	
		Conducted susceptibility	BS EN/EN61000-4-6			Level 2, 3V	
		Magnetic field immunity	BS EN/EN61000-4-8			Level 1, 1A/m	
		Voltage dips , interruption	BS EN/EN61000-4-11			>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
OTHERS							
MTBF		336.4Khrsmin. MIL-HDBK-217F(25℃) 3008.3Khrsmin. Telcordia TR/SR-332 (Bellcore) (25℃)					
DIMENSION		62*30*85.5mm (L*W*H)					
PACKING (Refer to page 7)		MAIN BODY POWER UNIT	NGE100 : 362g ; 28pcs/ 13.8Kg / 1.65CUFT NGE100U: 249g ; 28pcs/ 10.6Kg / 1.65CUFT				
		AC PLUGS	Included 7 types of AC Plugs for NGE100				
		Type-C Cable	Included for NGE100 / NGE100U				
NOTE							

- 1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.
- 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.
- 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F & 47 μ F capacitor.
- 4.Tolerance: includes set up tolerance, line regulation, load regulation.
- 5.Line regulation is measured from low line to high line at rated load.
- 6.Load regulation is measured from 0% to 100% rated load
- 7.Derating may be needed under low input voltage. Please check the derating curve for more details.
- 8.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)
- 9.Design meet US DoE Level VII (from Docket number EERE-2020-BT-STD-0006).

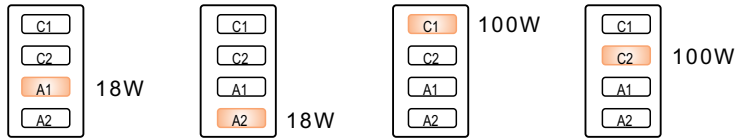
※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

Interchangeable AC Plug Specifically for NGE100

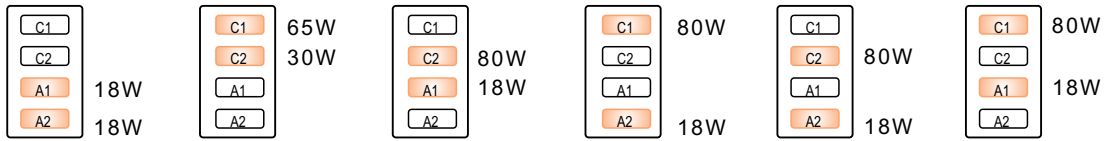
Model NO.	NGE100 (Universal Version) 							NGE100U (US Version) 
AC plug	Interchangeable Type (Unfoldable; AC Pin fixed)							Non-Interchangeable Type (Foldable AC Pin)
	EU	US	UK	AU	CN	KR	IN	
Certificate	        							    

Recommended Configuration

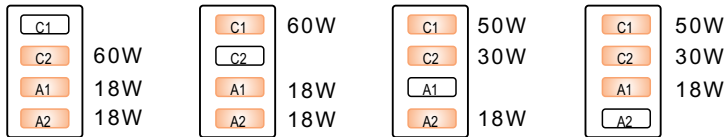
For 1 Port Charging



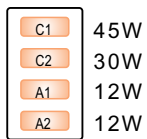
For 2 Ports Charging



For 3 Ports Charging

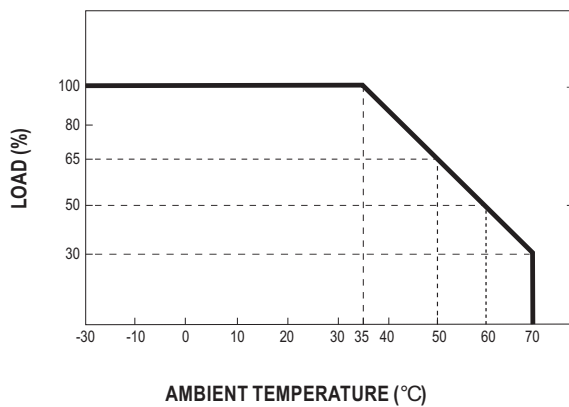


For 4 Ports Charging

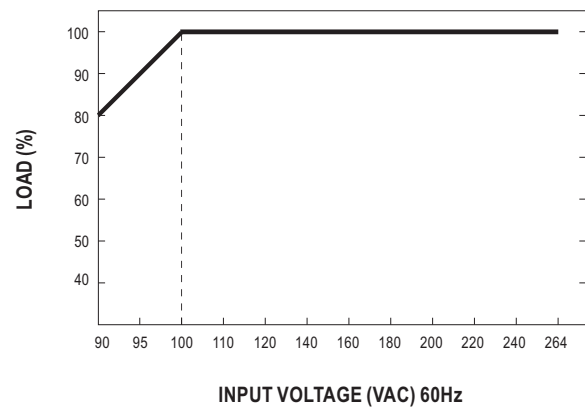


1. USB C1/C2 Type-C support PD (Power Delivery) 2.0 and 3.0; USB A1/A2 Type-A support QC (Quick Charge) 3.0
2. Due to the fast charge protocol identification and power allocation, when multiple ports are used at the same time, normal charging will be resumed after 1 to 3 interruptions, which is a protocol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

Derating Curve



Static Characteristics

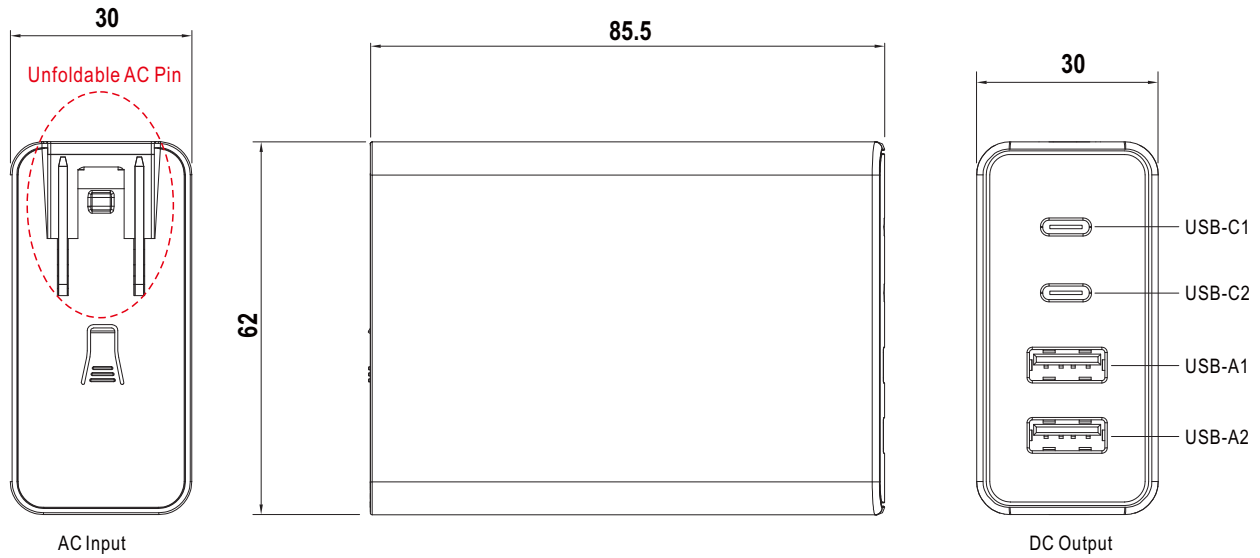


Mechanical Specification

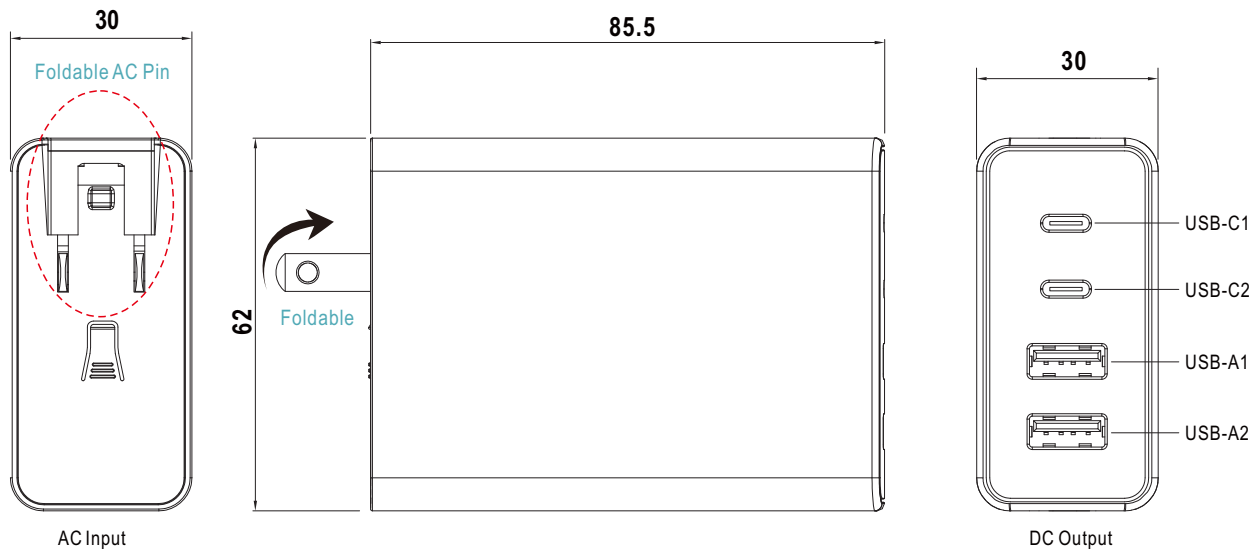
(Unit: mm , tolerance ± 1 mm)

Case No. NGE100

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



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

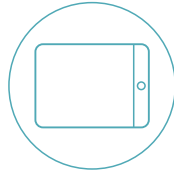


■ Application

※ One For Multi-Devices



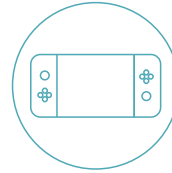
iOS&
Android Phone



Tablet



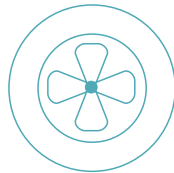
Laptop



Game
Console



Headset



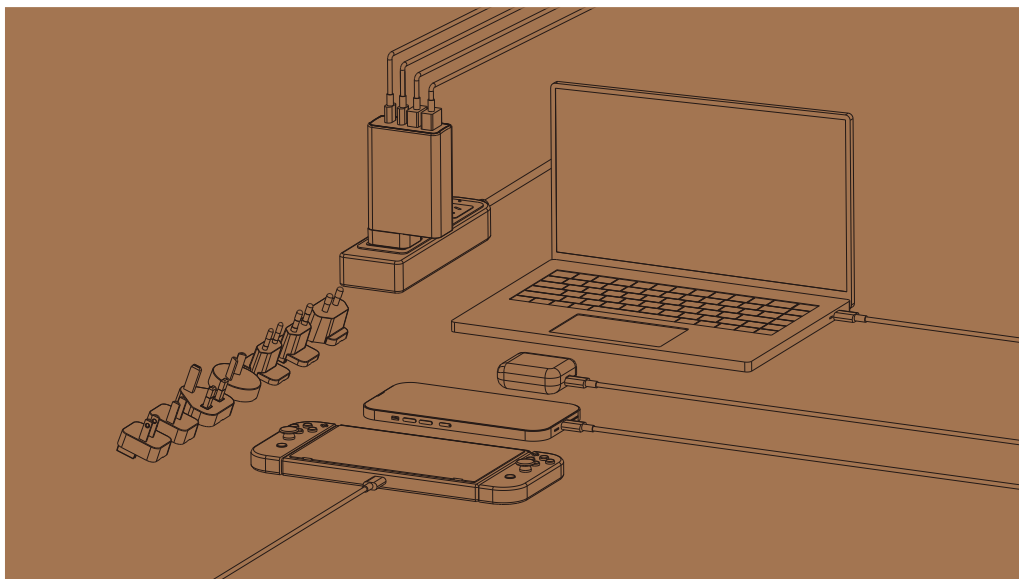
Fan



Humidifier



More Devices



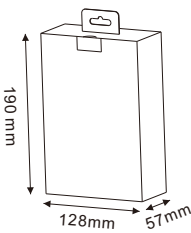
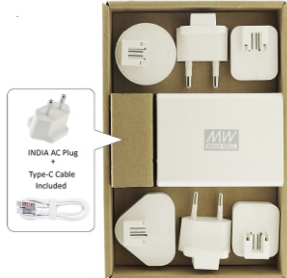
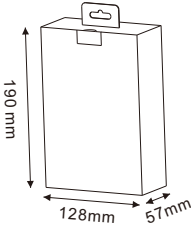
■ Accessory List

※ NGE100 : Includes 7 types of AC Plugs(EU, US, UK, AU, CN, KR, IN) 、 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, IN)	
	100cm USB Type-C cable	
	Drawstring Accessory Pouch	
NGE100U	100cm USB Type-C cable	

■ Packing

Model NO.	Dimension (L*W*H)	Photo		Per Package weight	Max.Q'TY /Carton (pcs)	One Carton G.W
		Outer	Inside			
NGE100				466g	28pcs	13.8Kg
NGE100U				353g	28pcs	10.6Kg

■ Installation Manual

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