



(NGE100: Universal Version)



(NGE100U: US Version)



**GaN** PD 3.0 QC 3.0

UL US R33100 RoHS GB4943.1 AS/NZS 62368-1 TPTC004 EAC CB IEC62368-1

DEKRA KC62368-1 IS13252 FC CE UKCA Energy Verified Rendement Énergétique Vérifié VI



## 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

## Applications

- Mobile phone
- Tablet
- Laptop
- Earphone
- Game devices

## GTIN CODE

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

## 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























## SPECIFICATION



MODEL NO.		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.) <sup>Note.2</sup>	USB C1: 5V/3A, USB C2: 5V/3A, USB A1: 5V/1.5A, USB A2: 5V/1.5A				
	DC VOLTAGE <sup>Note.3</sup>	5V	9V	12V	15V	20V
	RIPPLE & NOISE (max.) <sup>Note.4</sup>	200mVp-p		200mVp-p		200mVp-p
	VOLTAGE TOLERANCE <sup>Note.5</sup>	±5.0%	±5.0%	±4.0%	±4.0%	±4.0%
	LINE REGULATION <sup>Note.6</sup>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION <sup>Note.7</sup>	±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 <sup>Note.8</sup>	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 °C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85 °C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 40 °C)				
	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 TPCTC004 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, KC C9832		Class B	
		Radiated emission	BS EN/EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B) GB/T 9254.1-2021, KC C9832		Class B	
		Harmonic current	BS EN/EN61000-3-2, GB 17625.1-2022		Class A	
	EMC IMMUNITY	Voltage flicker	BS EN/EN61000-3-3		-----	
		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 °C) 3008.3Khrsmin. Telcordia TR/SR-332 (Bellcore) (25 °C)				
	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	<ol style="list-style-type: none"> <li>All parameters NOT specially at 230VAC input, rated load, 25 °C 70% RH ambient.</li> <li>This is in order to pass DoE level VI will not affect the normal use of other output voltages.</li> <li>The output voltage set at point measure by plug terminal &amp; 50% load.</li> <li>Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F &amp; 47 μ F parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation, load regulation.</li> <li>Line regulation is measured from low line to high line at rated load.</li> <li>Load regulation is measured from 0% to 100% rated load.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</li> </ol> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>					



■ Interchangeable AC Plug Specifically for NGE100

Model NO.	<p>NGE100 (Universal Version)</p> 							<p>NGE100U (US Version)</p> 
AC plug	<p>Interchangeable Type (Unfoldable; AC Pin fixed)</p>							<p>Non-Interchangeable Type (Foldable AC Pin)</p>
	<p>EU</p> 	<p>US</p> 	<p>UK</p> 	<p>AU</p> 	<p>CN</p> 	<p>KR</p> 	<p>IN</p> 	
Certificate	<p> <b>CB</b> &gt;DEKRA  c     </p> <p>    <b>CE</b> <b>UK</b> <b>CA</b> <b>FC</b> </p>							<p> <b>CB</b> c   </p> <p>  <b>FC</b> </p> <p><small>R33100 RoHS</small></p>

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

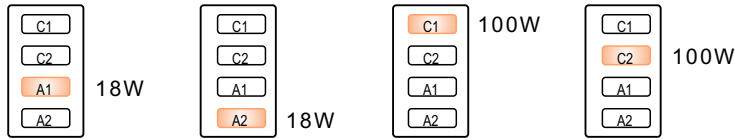
Step1	Step2
	
<p>Slide in AC converter along the guided rail between the metal prongs until it is locked in (with a "click" sound).</p>	<p>Check if the new plug type is stable and correct before use.</p>

**Note:**

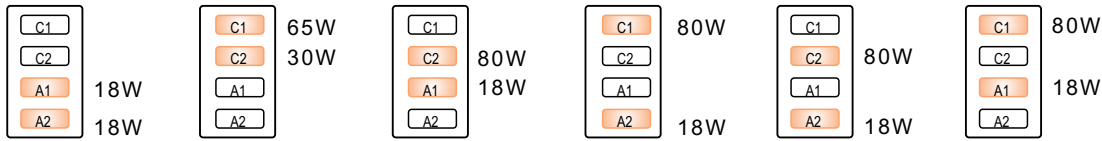
NGE100 is interchangeable type, it needs to be used along with one of the AC inlet plug (EU,US,UK,AU,CN,KR,IN).

## Recommended Configuration

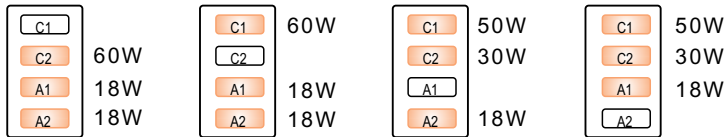
### For 1 Port Charging



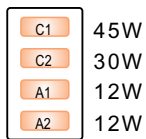
### For 2 Ports Charging



### For 3 Ports Charging

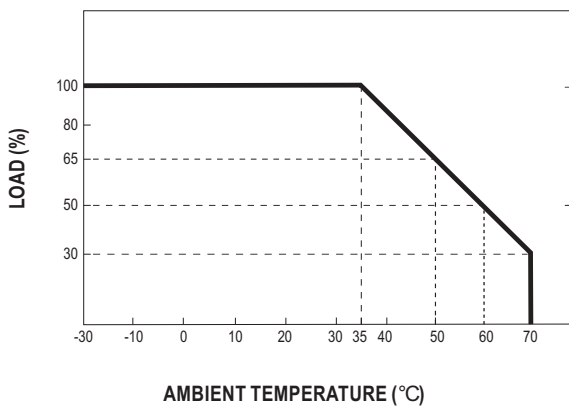


### For 4 Ports Charging

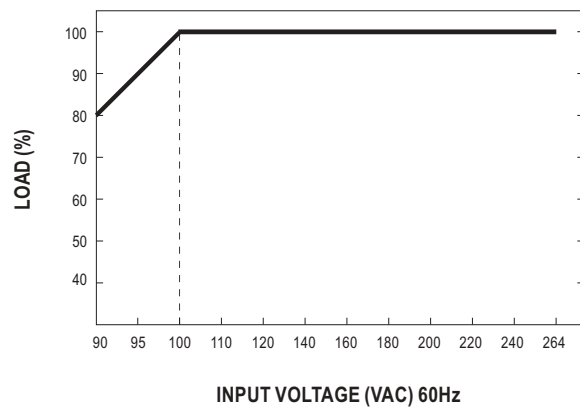


1. USB C1/C2 Type-C support PD (Power Delivery) 2.0 and 3.0; USB A1/A2 Type-A support QC (Quick Charge) 3.0
2. Due to the fast charge protocol identification and power allocation, when multiple ports are used at the same time, normal charging will be resumed after 1 to 3 interruptions, which is a protocol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

## Derating Curve



## Static Characteristics

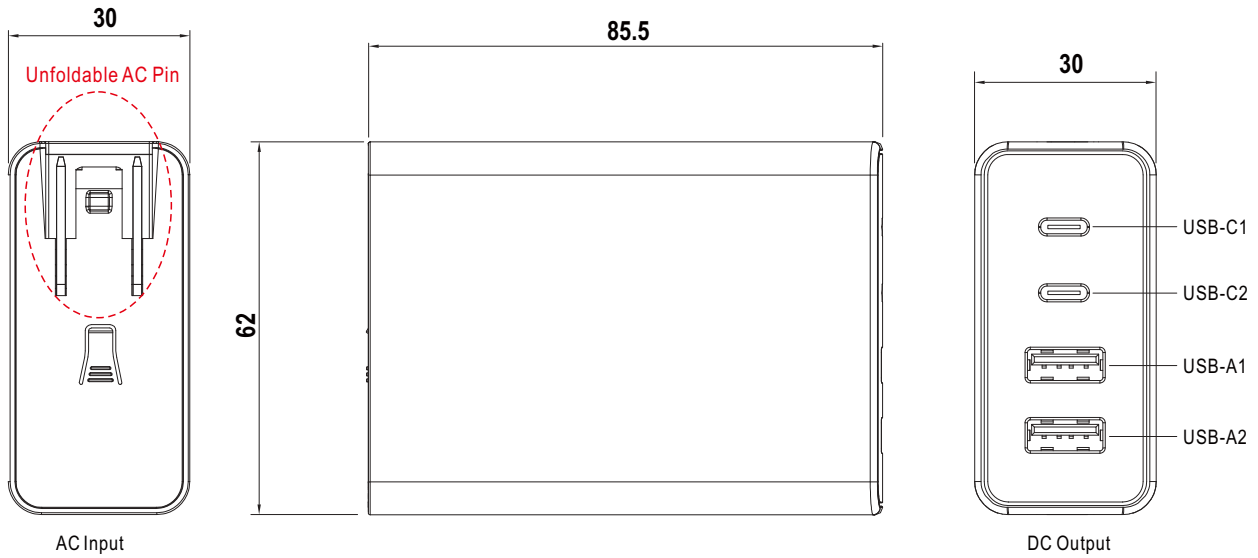


**Mechanical Specification**

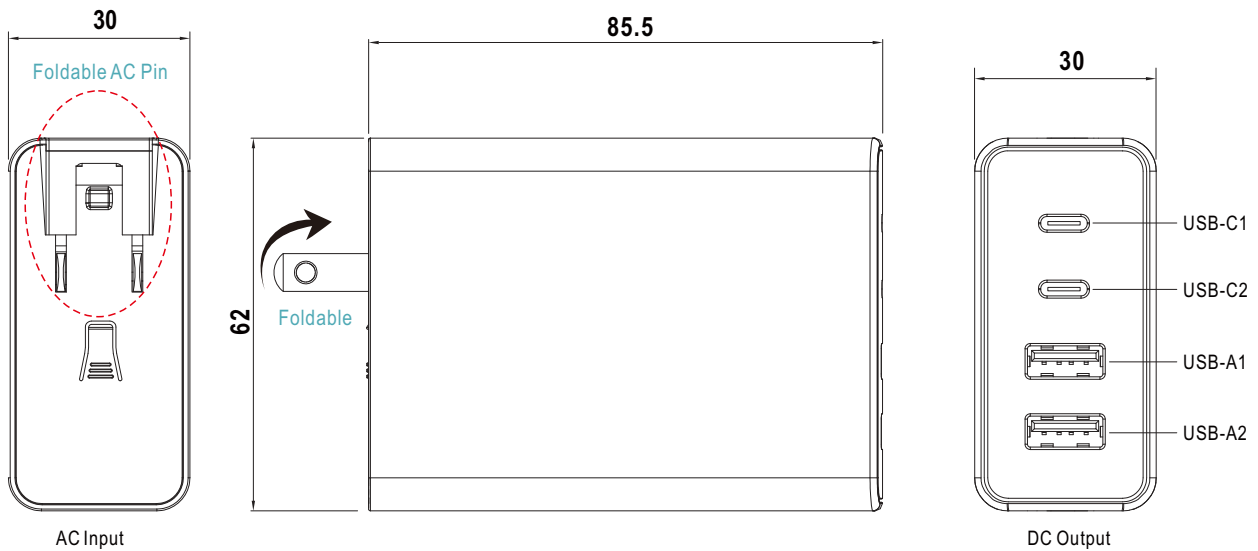
(Unit: mm, tolerance  $\pm 1$ mm)

Case No. NGE100

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



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

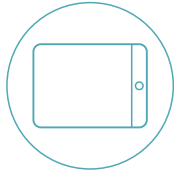


■ Application

※ One For Multi-Devices



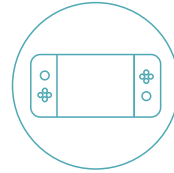
iOS&  
Android Phone



Tablet



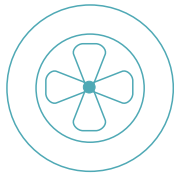
Laptop



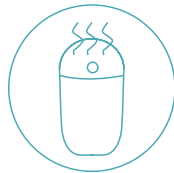
Game  
Console



Headset



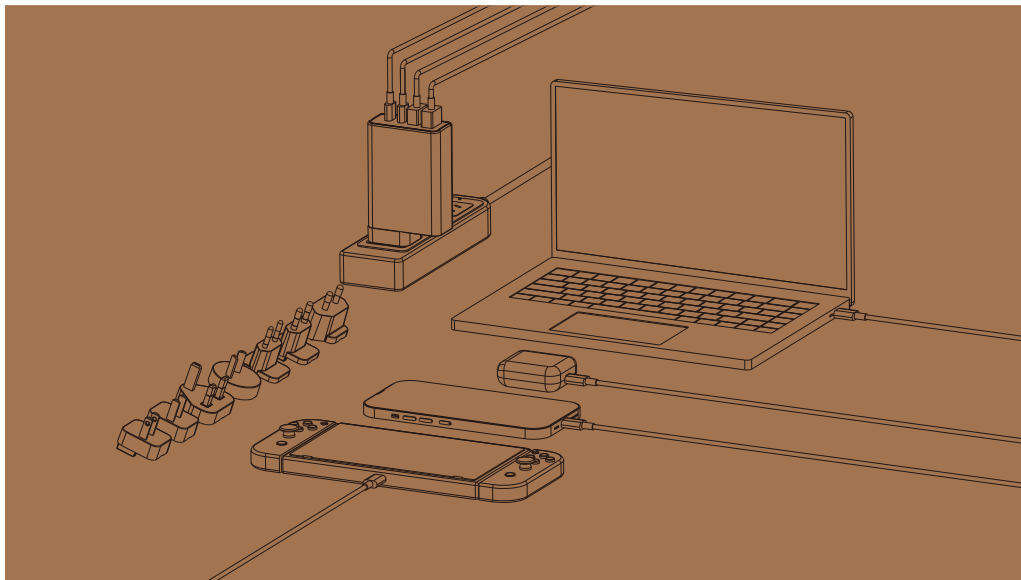
Fan



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>