









(NGE30I)

(NGE30E)

(NGE30U)

































## Features

- MEAN WELL Patent Application Number: 202330347779.4
- Interchangeable AC plugs (I-Type)
- · Global certificates in multi-fields (ITE 62368-1, Medical 60601-1, Household 60335-1, Industrial 61558-1/-2-16)
- 80~264Vac Universal AC input
- Ultra slim(30mm)
- No load power consumption < 0.075W</li>
- Energy efficiency Level VI
- Class II power (no earth pin)
- Protections: Short circuit / Overload / Over voltage
- · Pass LPS
- Extremely low leakage current <100uA</li>
- -30°C ~+70°C wide range working temperature
- · Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to : <a href="https://www.meanwell.com/upload/pdf/DC\_plug.pdf">https://www.meanwell.com/upload/pdf/DC\_plug.pdf</a>)
- 3 years warranty

# Description

NGE30 is a highly reliable, 30W wall-mounted style single-output green adaptor series, which is compact and convenient for carry. This product is equipped with 7 types of interchangeable AC plug (European, USA,U.K., Australian, China, Korea and India type) that makes it very suitable for travel use. NGE30 is a Class II power unit (no FG), accepting the input range from 80VAC to 264VAC that it can satisfy the demands for various types of electrical devices.

With the working efficiency up to 91.5% and the extremely low no-load power consumption below 0.075W, NGE30 is compliant with the latest USA energy regulation EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, Korea KMEPS, EU ErP and CoC version5. The supreme feature allows the adaptor to save the energy when it is under either the operating mode or the standby mode. The entire series is approved for ITE, medical, household and industrial appliance safety regulations; moreover, it adopts the 94V-0 flame retardant plastic case that it can effectively prevent users from electric hazard.

## Model Encoding



### Applications

- Consumer electronic devices
- Telecommunication devices
- · Office facilities
- · Industrial equipments
- · Medical devices
- Household devices

#### GTIN CODE

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



#### **SPECIFICATION**

ORDER NO				J NGE30○09-F	P1J NGE30 12-P	1J NGE30○15-I	P1J NGE30 18-P	P1J NGE30 ○24-P1J	NGE30 48-P		
	T==		○ = I, U, E	1	1	1	1	1	1		
	DC VOLTAGE	Note.2		9V	12V	15V	18V	24V	48V		
	RATED CURR	ENT	4A	3.33A	2.5A	2A	1.66A	1.25A	0.63A		
	CURRENT RA	NGE	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.66A	0 ~ 1.25A	0 ~ 0.63A		
OUTPUT	RATED POWER		20W	30W	30W	30W	30W	30W	30W		
001101	RIPPLE & NOISE (max.) Note.3		100mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p		
	VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%		
	LINE REGULA	TION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION Note.6		±5.0%	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%		
	SETUP, RISE, HOLD UP TIME					, 10ms / 115VAC a		==	1 == 10 / 10		
	VOLTAGE RAI		80 ~ 264VAC	113 ~ 370VDC	· · · · · · · · · · · · · · · · · · ·	, 101107 1107710 4	it full foud				
	FREQUENCY		47 ~ 63Hz								
INPUT			82.5%	87.5%	88.5%	87%	88%	88.5%	91.5%		
	EFFICIENCY (	тур.)			00.376	01 /0	00 /0	00.576	91.5/0		
	AC CURRENT			0.6A / 230VAC							
	INRUSH CURF		COLD START 35A / 115VAC								
	LEAKAGE CU	RRENT (max.)	Touch current < 1								
			110% ~ 150% ra								
	OVERLOAD  OVER VOLTAGE				de, recovers automa						
PROTECTION					nd latch off o/p voltag	ge, re-power on to r	ecover.				
			110% ~ 140% ra	ited output voltag	je						
			Protection type:	: Clamp by zene	r diode						
	WORKING TE	MP.	-30 ~ +70°C (Ref	fer to "Derating C	Curve")						
	<b>WORKING HU</b>	MIDITY	20% ~ 90% RH n	on-condensing							
ENVIRONMENT	STORAGE TEI	MP., HUMIDITY	-20 ~ +85°C, 10 °	~ 95% RH non-co	ondensing						
	TEMP. COEFF		±0.03% / °C (0 ~								
	VIBRATION		·	,	eriod for 60min. eac	h along X Y 7 ave	98				
	VIDICATION		· · · · · · · · · · · · · · · · · · ·		-1/-1-11, IEC6155						
	WITHSTAND V		RCM AS/NZS 61558-1/-2-16; EAC TPTC004; CCC GB4943.1 approved; KC KC62368-1; BIS IS13252(part1):2010/IEC60950-1:2005. (Please refer to next page for more details)  I/P-O/P:4000VAC								
	ISOLATION RE		I/P-O/P:100M Oh		25°C / 70% RH						
				Parameter Standard Test Level / Note							
				BC	S EN/EN55032(CIS	PR32)/EN55011 . F	FCC Part15				
			Conducted emission			/T 9254.1-2021, KC C9832					
SAFETY &	EMC EMISSION	EMC EMISSION		BS	BS EN/EN55032(CISPR32)/EN55011 , FCC Part15 , CNS15936, GB/T 9254.1-2021, KC C9832 Class B						
EMC					· · · · · · · · · · · · · · · · · · ·	4.1-2021, NO 090					
(Note. 8)			Harmonic current		3 EN/EN61000-3-2			Class A			
			Parameter	Sta	Standard Test Level /Note						
			ESD	BS	EN/EN61000-4-2 Level 4, 15KV air;				4,8KV contact		
			RF field susceptib	oility BS	EN/EN61000-4-3			Level 2, 3V/m			
			EFT bursts	BS	EN/EN61000-4-4			Level 3, 2KV			
	EMC IMMUNITY	1	Surge susceptibilit	y BS	S EN/EN61000-4-5			Level 3, 1KV/L-N			
			Conducted suscep		EN/EN61000-4-6			Level 2, 3V			
					S EN/EN61000-4-8			Level 2, 3A/m			
			Voltage dips , inter	,	S EN/EN61000-4-11			>95% dip 0. 5 periods,			
	MTBF		>95% interruptions 250 periods								
			1078.6 Khrs min. MIL-HDBK-217F (25°C) 7587.5 Khrs min. Telcordia TR/SR-332(Bellcore) (25°C) 62*30*65mm (L*W*H)								
OTHERS	DIMENSION	MAIN BODY			Spac / 0. 2 Kg / 1. 06 CL	IET for NGE20Evy D1	1				
	PACKING		148g; 60pcs/ 10.5Kg / 0.94CUFT for NGE30Ixx/Uxx-P1J 162g; 45pcs/ 9.2Kg / 1.06CUFT for NGE30Exx-P1J								
	DI UC	AC PLUGS	Refer to Page 3	Other tune avail-							
	PLUG				ble by customer rec	•					
OC OUTPUT		ABLE  See page 6~7; Other type available by customer requested  All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.  DC voltage: The output voltage set at point measure by plug terminal & 50% load.  Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 µ F & 47 µ F capacitor.  Tolerance: includes set up tolerance, line regulation, load regulation.  Line regulation is measured from low line to high line at rated load.  Load regulation is measured from 0% to 100% rated load  Derating may be needed under low input voltage. Please check the derating curve for more details.  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)									



## ■ Interchangeable AC Plug Specifically for NGE12/18/30/45/65/90 (I-Type)

Order NO.	NGE30Ixx-P1J (Universal Version)					NGE30Exx-P1J (EU Version)	NGE30Uxx-P1J (US Version)			
	Interchangeable Type (Unfoldable; AC Pin fixed)						Non-Interchangeable Type			
AC plug	EU	US 🗳	UK	AU	CN	KR	IN	Unfoldable AC Pin	Foldable AC Pin	
Certificate	CB PDEKRA A P C Us & C  S33100  RS3100  RS3100  RS3100					CB ≥DEKRA [H[ C €	CBA © c Us F C			

## ■ AC Plugs Accessory (Sold Seperately)

MAN I NO	5 11 11	Per Bag	Per Cart	on
MW's order NO.	Per Unit	Q'Ty	Q'Ty	G.W.
AC PLUG-EU4		30 pcs	300 pcs (10 bags)	5.4Kg
AC PLUG-US4	<b>&amp;</b>	30 pcs	300 pcs (10 bags)	4.7Kg
AC PLUG-UK4	<b>*</b>	30 pcs	300 pcs (10 bags)	7.1Kg
AC PLUG-AU4		30 pcs	300 pcs (10 bags)	5.2Kg
AC PLUG-CN4	**	30 pcs	300 pcs (10 bags)	4.8Kg
AC PLUG-KR4		30 pcs	300 pcs (10 bags)	6.3Kg
AC PLUG-IN4		30 pcs	300 pcs (10 bags)	7.7Kg
AC PLUG-MIX4	(Per Set)	30 pcs (5 Types*6 mixed bags)	300 pcs (5 Types*6 mixed bags) (10 bags)	5.45Kg
AC PLUG-MIX5	(Per Set)	35 pcs (7 Types*5 mixed bags)	315 pcs (7 Types*5 mixed bags) (9 bags)	6.13Kg



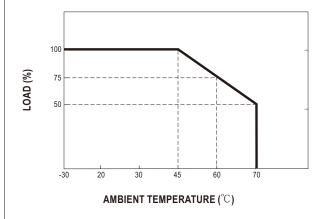
#### ■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

Step1	Step2
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.

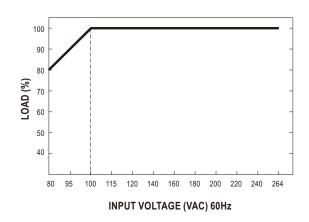
#### Note:

- 1. NGE30I main body unit and AC inlet plug should be ordered separately.
- 2. NGE30I needs to be used along with one of the AC inlet plug (EU,US,UK,AU,CN,KR,IN).

### ■ Derating Curve

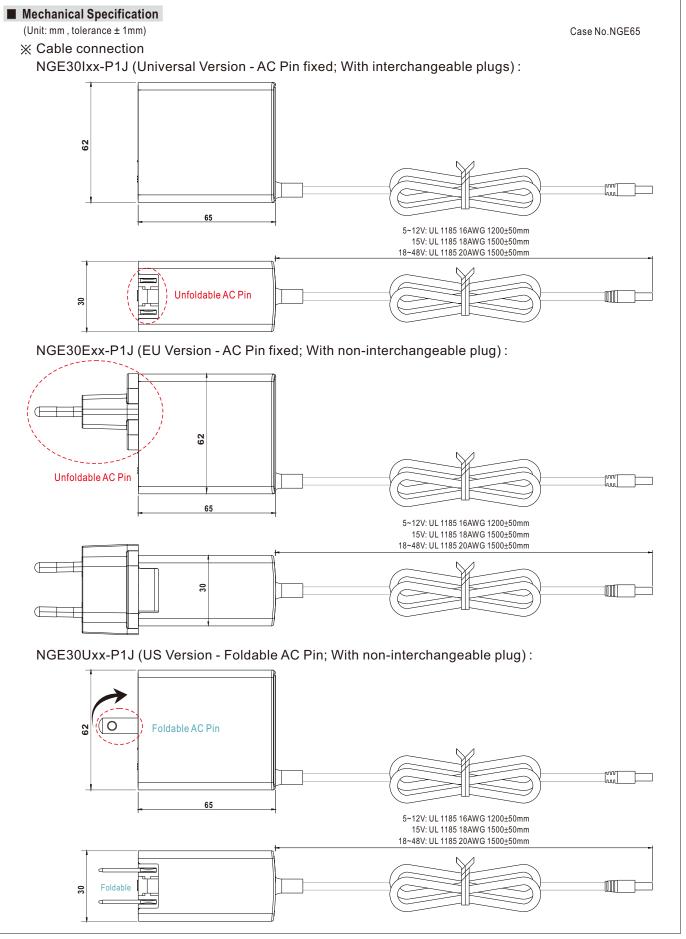


#### ■ Static Characteristics



File Name:NGE30-SPEC 2025-02-24







#### ■ DC Output Plug

#### O Standard plug: P1J

Unit:mm

P1J		Pin Assignment
5.5	11±0.5mm	Outside ⊕ ⊕ Inside

- O DC plug changeable through:
  - (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
  - (2) Quick adapter accessory (sold separately without MOQ)

    Please refer to below table and online selection guide: <a href="https://www.meanwell.com/upload/pdf/DC\_plug.pdf">https://www.meanwell.com/upload/pdf/DC\_plug.pdf</a>

Example quick adapter accessory:



Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style  Type No.  OD  ID  L  Accessory  P1I  5.5  2.1  9.5  P1L  5.5  2.5  9.5  P1R  5.5  2.1  9.5  Available (Current rating: 7.5)  P1R  5.5  P1R  F1R  F1R  F1R  F1R  F1R  F1R  F1R	
P1L 5.5 2.5 9.5  (Straight) P1M 5.5 2.5 11.0  P1IR 5.5 2.1 9.5  P1JR 5.5 2.1 11.0  P1LR 5.5 2.5 9.5  (Current rating: 7.5)	.max.)
(Straight) P1M 5.5 2.5 11.0 Available (Current rating: 7.5) P1JR 5.5 2.1 11.0 P1LR 5.5 2.5 9.5	.max.)
(Straight) P1M 5.5 2.5 11.0 Available (Current rating: 7.5.5)  P1JR 5.5 2.1 11.0  P1LR 5.5 2.5 9.5	.max.)
P1JR 5.5 2.1 11.0 P1LR 5.5 2.5 9.5	.max.)
P1JR 5.5 2.1 11.0 P1LR 5.5 2.5 9.5	(max.)
(Pight-angled)	
(Right-angled) P1MR 5.5 2.5 11.0	
Barrel Style Type No. A B C	
Darrier Style Type No. OD ID L	
C P2I 5.5 2.1 9.5	
P2J 5.5 2.1 11.0	
P2L 5.5 2.5 9.5 None	
P2L   5.5   2.5   9.5   None	
P2IR 5.5 2.1 9.5	
P2JR 5.5 2.1 11.0	
P2LR 5.5 2.5 9.5	
(Right-angled) P2MR 5.5 2.5 11.0	
Lock Style Type No. A B C	
OD ID L	
Floating Locking   P2S(S761K) 5.53 2.03 12.06	
P2K(761K) 5.53 2.54 12.06	
P2S(S761K) 5.53 2.03 12.06 P2K(761K) 5.53 2.03 9.52 P2C(S760K) 5.53 2.03 9.52	
SWITCHCRAFT original or equivalent P2D(760K) 5.53 2.54 9.52	

File Name:NGE30-SPEC 2025-02-24



	- N	А		В	С	Quick Adapter	
Min. Pin Style	Type No.	OD		ID	L	Accessory	
. A.   C-	P3A	2.35	(	0.7	11.0	Available	
	P3B	4.0		1.7	11.0	(Current rating: 5A max.)	
EIAJ equivalent	P3C	4.75		1.7	11.0	(Gurrentraung, Greman)	
Center Pin Style	Type No.	А	В	С	D		
Genter Fin Style	туре но.	OD	ID	L	Center Pin		
LA LA	P4A	5.5	3.4	11.0	1.0	Available	
	P4B	6.5	4.4	11.0	1.4	(Current rating: 7.5A max.)	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6		
Min. DIN 3 Pin with Lock (male)	Type No	Р	in Assi	Assignment			
Will. DIN 3 Pill Will Lock (Illale)	Type No.	PIN No		Output		Available (Current rating: 7.5A max.)	
		1		+Vo			
	R6B	2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo	)		
	T 11	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No	No. Output				
	R7B	1		+Vo		Available	
2 3		2		-Vo -Vo		(Current rating: 7.5A max.)	
KYCON KPPX-4P equivalent		3					
TOOM IT A TO SQUITAGE		4 +Vo					
Stripped and tinned leads	Type No.	Pin Assignme					
Campped and announced	1,701101	PIN No		Outp	ut		
1 1 2 2	by customer	1 ( Ribbed	)	+V(	)	None	
L1 Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	3, 333.01101	2 (Letter	)	-Vo			

#### ■ Installation Manual

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