









(NGE45E)

(NGE45U)















































#### 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

NGE45 is a highly reliable, 45W 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. NGE45 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% and the extremely low no-load power consumption below 0.075W, NGE45 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.			NGE45_05-P1J   NGE45_09-P1J   NGE45_012-P1J   NGE45_015-P1J   NGE45_018-P1J   NGE45_024-P1J   NGE45_048-P1J									
			○ = I, U, E									
	DC VOLTAGE	Note.2	5V	9V	12V	15V	18V	24V	48V			
	RATED CURRE	ENT	5.63A	4.5A	3.75A	3A	2.5A	1.88A	0.94A			
	<b>CURRENT RAI</b>	NGE	0 ~ 5.63A	0 ~ 4.5A	0 ~ 3.75A	0 ~ 3A	0 ~ 2.5A	0 ~ 1.88A	0 ~ 0.94A			
	RATED POWER		28.1W	40.5W	45W	45W	45W	45.1W	45.1W			
DUTPUT	RIPPLE & NOISE (max.) Note.3		100mVn-n	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p			
		ERANCE Note.4		±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%			
	LINE REGULA		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LOAD REGULA			±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%			
	SETUP, RISE,	HOLD UP TIME	1500ms, 50ms,	30ms / 230VAC	3000ms, 50ms, 1	0ms / 115VAC at f	ull load					
	VOLTAGE RAN	IGE Note.7	80 ~ 264VAC 113 ~ 370VDC									
	FREQUENCY F	RANGE	47 ~ 63Hz									
INPUT	EFFICIENCY (	Гур.)	84%	89%	90%	90%	90%	90%	91%			
	AC CURRENT	<u>, , , , , , , , , , , , , , , , , , , </u>	1A / 115VAC	0.6A / 230VAC		1			1 1 1 1			
	INRUSH CURR	ENT (may )		5A / 115VAC 70	ηΛ / 23η\/ΛC							
	LEAKAGE CUI	RRENI (max.)		100uA (rms) @264								
	01/501 040			ated output powe								
	OVERLOAD				ode, recovers automatic							
PROTECTION				48V Shut down ar	nd latch off o/p voltage,	re-power on to rec	over.					
	OVER VOLTAG	ìF.	110% ~ 140% r	ated output voltag	ge							
	OVER VOLIAG	,_	Protection type	: Clamp by zene	er diode							
	WORKING TEMP.		-30 ~ +70°C (Re	fer to "Derating C	Curve")							
	WORKING HUI		20% ~ 90% RH		- /							
ENVIRONMENT.					ondoneina							
ENVIRONMENT	STORAGE TEN			~ 95% RH non-co	ondensing							
	TEMP. COEFFI	CIENT	±0.03% / °C (0 ~	,								
	VIBRATION				eriod for 60min. each a I-1/-1-11, IEC61558-1							
	SAFETY STAN	DARDS	ANSI/AAMI ES60601-1-11, CAN/CSA-C22.2 NO.60601-1-11(for U Type only)  DEKRA BS EN/EN62368-1, BS EN/EN60601-1/-1-11, BS EN/EN61558-1/-2-16, BS EN/EN60335-1;  PSE J62368-1; BSMI CNS15598-1;  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)									
	WITHSTAND V	OLTACE	I/P-O/P:4000VAC									
	ISOLATION RE				05°C / 700/ DU							
	ISOLATION RE	SISTANCE	/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH  Parameter Standard Test Level / Note									
			Parameter					t Level / Note				
SAFETY &	EMC EMISSION		Conducted emissi	on CN	S EN/EN55032(CISPR NS15936, GB/T 9254.1	-2021, KC C9832	Cla	ss B				
EMC (Note. 8)			Radiated emission	) CN	S EN/EN55032(CISPR NS15936, GB/T 9254.1	,	Cla	ss B				
			Harmonic current	BS	S EN/EN61000-3-2		Cla	ss A				
			Parameter	Sta	andard	_	Tes	st Level /Note				
			ESD	po	S EN/EN61000-4-2		l ev	vel 4, 15KV air; Level 4	.8KV contact			
			RF field suscepti						, 30			
					EN/EN61000-4-3			Level 2, 3V/m				
			EFT bursts		3 EN/EN61000-4-4	N61000-4-4 Level 3, 2KV		•				
	EMC IMMUNITY	,	Surge susceptibili	ty BS	S EN/EN61000-4-5		Le	Level 3, 1KV/L-N				
			Conducted susce	ptibility BS	S EN/EN61000-4-6		Le	Level 2, 3V				
			Magnetic field imr	nunity BS	S EN/EN61000-4-8		Le	Level 2, 3A/m				
			Voltage dips , inte	, =-	S EN/EN61000-4-11		>	>95% dip 0. 5 periods, 30% dip 25 pe >95% interruptions 250 periods				
	MTBF		749.9 Khrs min. MIL-HDBK-217F (25°C) 6361.6 Khrs min. Telcordia TR/SR-332(Bellcore) (25°C)									
OTHERS	DIMENSION	MAIN BODY	62*30*65mm (L*W*H) 196q; 60pcs/ 13.4Kg / 0.94CUFT for NGE45lxx/Uxx-P1J 211q; 45pcs/ 11.4				-144 41/14 0001	IET for NOT for	4.1			
	PACKING	MAIN BODY		.4Kg / U.94CUFT	s/ 11.4Kg / 1.06CL	JFT for NGE45Exx-P	IJ					
		AC PLUGS	Refer to Page 3									
			See page 6~7; Other type available by customer requested									
	CABLE		See page 6~7; Other type available by customer requested									
CONNECTOR			acified at 230VAC input, rated load, 25°C 70% RH ambient.  Let voltage set at point measure by plug terminal & 50% load.  Basured at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F & 47 μ F capacitor.  But up tolerance, line regulation, load regulation.  But up tolerance, line regulation, load regulation.  But up tolerance, line regulation, load regulation.  But of to 100% rated load.  But up tolerance with line at rated load.  But up tol									



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

		(	NGE45		n)			NGE45Exx-P1J (EU Version)	NGE45Uxx-P1J (US Version)
Order NO.		•	W 44						
	Interchangeable Type (Unfoldable; AC Pin fixed)							Non-Interchan	geable Type
AC plug	EU	US	UK	AU	CN	KR	IN		
7.0 plug	-	<b>&amp;</b>	N/P		4			Unfoldable AC Pin	Foldable AC Pin
	C	B₽DE	KRA 🛕	(1) c	Dus 🕭	(M)		CB DEKRA	
Certificate	CB PDEKRA A P C Us & C C C C C C C C C C C C C C C C C C						ERIC€	est us FC	

## ■ AC Plugs Accessory (Sold Seperately)

	2	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		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



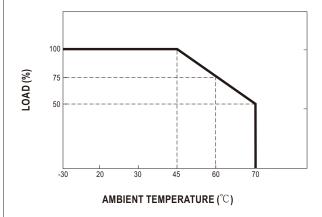
### ■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

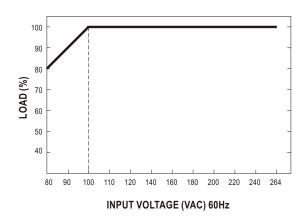
#### Note:

- 1. NGE45I main body unit and AC inlet plug should be ordered separately.
- 2. NGE45I needs to be used along with one of the AC inlet plug (EU,US,UK,AU,CN,KR,IN).

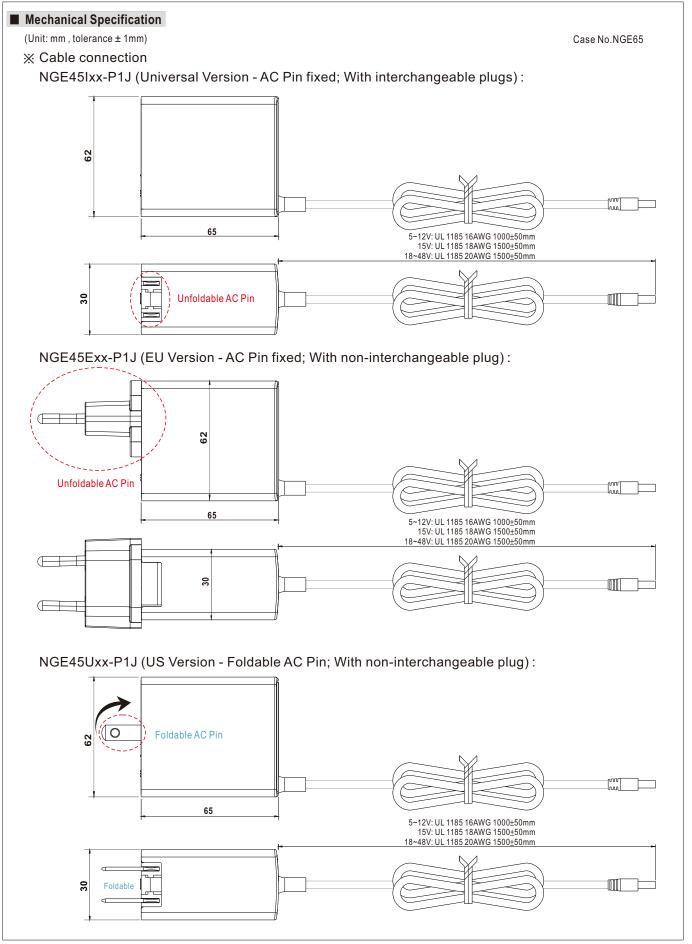
#### ■ Derating Curve



#### ■ Static Characteristics





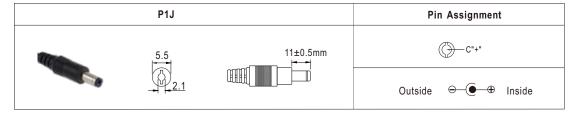




## ■ DC Output Plug

#### O Standard plug: P1J

Unit:mm



- 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  P1R  5.5  2.1  P1R  5.5  2.1  P1R  Available  (Current rating: 7.5Ama)  P1RR  5.5  P1RR  F1RR  F1RR		Tuning Fo	rk Styla	Type No.	Α	В	С	Quick Adapter		
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     P1JR   5.5   2.5   9.5     P1JR   5.5   2.5   9.5     P1JR   5.5   2.5   9.5     P1JR   5.5   2.5   11.0     P1LR   5.5   2.1   11.0     P1LR   5.5   2.5   11.0     P1LR   5.5   2.5   2.1   11.0     P1LR   5.5   2.5   2.1   11.0     P1LR   5.5   2.5   2.5   11.0     P1LR   5.5   2.5   2.1   2.0     P1LR   7.5   7.5   7.5   7.5   7.5     P1LR   7.5   7.5   7.5   7.5   7.5     P1LR   7.5   7.5   7.5   7.5   7.5     P1LR		Tulling FO	ik Style	Type No.	OD	ID	L	Accessory		
Name			- C	P1I	5.5	2.1	9.5			
Straight   P1M   5.5   2.5   11.0   Available   Current rating: 7.5Ama   P1JR   5.5   2.1   11.0   P1LR   5.5   2.5   9.5   P1MR   5.5   2.5   11.0   P1MR				P1L	5.5	2.5	9.5			
P1JR   5.5   2.1   11.0     P1LR   5.5   2.5   9.5     P1MR   5.5   2.5   11.0     P1MR   5.5   2.5   11.0     P1MR   5.5   2.5   11.0     P1MR   5.5   2.1   11.0     P1MR   5.5   2.1   11.0     P1MR   5.5   2.1   11.0     P1MR   5.5   2.1   11.0     P2M   5.5   2.1   11.0     P1MR   5.5   2.5   2.1     P1MR   5.5   2.5   2.1     P1MR   5.5   2.5   2.1     P1MR   5.5   2.5   2.5     P1MR   5.5   2.5     P1MR   7.5	THE STATE OF THE S	- A-		P1M	5.5	2.5	11.0			
P1JR   5.5   2.1   11.0     P1LR   5.5   2.5   9.5     P1MR   5.5   2.5   11.0     P1MR   5.5   2.5   11.0     P1MR   5.5   2.5   11.0     P1MR   5.5   2.1   11.0     P1MR   5.5   2.1   11.0     P1MR   5.5   2.1   11.0     P1MR   5.5   2.1   11.0     P2M   5.5   2.1   11.0     P1MR   5.5   2.5   2.1     P1MR   5.5   2.5   2.1     P1MR   5.5   2.5   2.1     P1MR   5.5   2.5   2.5     P1MR   5.5   2.5     P1MR   7.5			<del>_</del> C	P1IR	5.5	2.1	9.5			
P1MR   5.5   2.5   11.0	-	<b>→</b>		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)		
Barrel Style  Type No.  A B C OD ID L P2I 5.5 2.1 9.5 P2J 5.5 2.1 11.0 P2J 5.5 2.1 11.0				P1LR	5.5	2.5	9.5			
P2J 5.5 2.1 11.0			(Right-angled)	P1MR	5.5	2.5	11.0			
C P2I 5.5 2.1 9.5 P2J 5.5 2.1 11.0		Rarrol	Styla	Type No	Α	В	С			
P2J 5.5 2.1 11.0		Dallel	Style	Type No.	OD	ID	L			
			. <b>C</b> .	P2I	5.5	2.1	9.5			
P2L   5.5   2.5   9.5   None				P2J	5.5	2.1	11.0			
(Straight) P2M 5.5 2.5 11.0		A B		P2L	5.5	2.5	9.5	None		
				P2M	5.5	2.5	11.0			
P2IR 5.5 2.1 9.5				P2IR	5.5	2.1	9.5			
P2JR 5.5 2.1 11.0				P2JR	5.5	2.1	11.0			
(Pight-angled) P2LR 5.5 2.5 9.5				P2LR	5.5	2.5	9.5			
(Right-angled) P2MR 5.5 2.5 11.0			P2MR	5.5	2.5	11.0				
Lock Style Type No. A B C		Lock	tyle	Type No	Α	В	С			
OD ID L		LUCKS	tyl <del>o</del>	Type No.	OD	ID	L			
Floating Locking   -C   P2S(S761K)   5.53   2.03   12.06   None	-	Α	Floating Locking - C-	P2S(S761K)	5.53	2.03	12.06	None		
P2K(761K) 5.53 2.54 12.06 P2C(S760K) 5.53 2.03 9.52				P2K(761K)	5.53	2.54	12.06	INOTIE		
P2C(S760K) 5.53 2.03 9.52	00	В		P2C(S760K)	5.53	2.03	9.52			
SWITCHCRAFT original or equivalent P2D(760K) 5.53 2.54 9.52			SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52			



NI DI OLI	T N.	А		В	С	Quick Adapter	
Min. Pin Style	Type No.	OD	_	ID	L	Accessory	
. A. EC	P3A	2.35	(	0.7	11.0	Available	
	P3B	4.0		1.7	11.0	(Current rating: 5A max.)	
ElAJ equivalent	P3C	4.75		1.7	11.0	(Gurront runing, Graniux.)	
Contar Din Style	Type No.	Α	В	С	D		
Center Pin Style	туре но.	OD	ID	L	Center Pin		
A LA LC	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)	Typo No	Р	in Assi	Assignment			
wiii. Din 3 Pili with Lock (male)	Type No.	PIN No	).	Outp	ut		
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
		2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo	)		
M: BIN ( B: (1)   ( )	Tuno No	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No	PIN No. Output				
		1		+\/(	-	Available	
2 3 E S G	R7B	2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-4P equivalent	2	3	-Vo			_	
		4	<u> </u>	+\(			
Stripped and tinned leads	Type No.			gnment			
	71.	PIN No	).	Outp	ut		
1	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)	by oddiomor	2 (Letter	)	-Vo			

### ■ Installation Manual

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