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- MEANWELL Patent Application Number: 202330347779.4
- Interchangeable AC plugs
- Global certificates in multi-fields (ITE 62368-1, Medical 60601-1, Household 60335-1, Industrial 61558-1/-2-16)
- Universal AC input / Full range
- Ultra slim(30mm)
- No load power consumption < 0.075W
- Energy efficiency Level VI
- Class II power (no earth pin)
- · Protections: Short circuit / Overload / Over voltage
- · Pass LPS
- Extremely leakage current <100uA
- -30°C ~+70°C wide range working temperature
- Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to: https://www.meanwell.com/upload/pdf/DC_plug.pdf)
- 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 5 types of interchangeable AC plug (European, USA, U.K., Australian and China 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, 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

MODEL NO.			NGE45 05-P1J	NGE45 09-P1	J NGE45 12-P1J	NGE45 15-P1J	NGE45 18-P1J	NGE45 24-P1J	NGE45 48-P			
		○ = 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			
	CURRENT RANGE		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 & NOIS	SE (max.) Note.3	100mVp-p	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%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%			
				00ms, 50ms, 30ms / 230VAC 3000ms, 50ms, 10ms / 115VAC at full load								
	VOLTAGE RAN		80 ~ 264VAC 113 ~ 370VDC									
	FREQUENCY F		47 ~ 63Hz									
	EFFICIENCY (Typ.) AC CURRENT		84%	89%	90%	90%	90%	90%	91%			
INPUT				6A / 230VAC	10070		33,0	0070	0170			
-	INRUSH CURR	FNT (may)			/ 23NVAC							
	LEAKAGE CUI		COLD START 35A / 115VAC 70A / 230VAC Touch current < 100uA (rms) @264VAC									
	LLANAGE OUI	(ICENT (IIIax.)	110% ~ 150% rate	, , ,	10							
	OVERLOAD				, recovers automatica	ally after fault conditi	on is removed					
PROTECTION				•	latch off o/p voltage,	•						
NO IZO NO N			110% ~ 140% rate		1 0,							
	OVER VOLTAG	SE .	Protection type : 0		liode							
	WORKING TEN	/IP.	-30 ~ +70°C (Refe									
	WORKING HUI		20% ~ 90% RH no		,							
-	STORAGE TEN		-20 ~ +85°C, 10 ~		densing							
-IN A IN O IN IN I	TEMP. COEFFI		±0.03% / °C (0 ~ 4		actioning							
-	VIBRATION	CIENT	,	,	od for 60min. each a	long V V 7 avas						
	SAFETY STANDARDS		CB IEC62368-1, IEC60601-1/-1-11, IEC61558-1/-2-16, IEC60335-1; UL 0162368-1, CSA C22.2 NO. 62368-1, ANSI/AAMI ES60601-1/-1-11(3.2 Version), CAN/CSA-C22.2 NO.60601-1/-1-11 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. (Please refer to next page for more details)									
	WITHSTAND VOLTAGE		I/P-O/P:4000VAC									
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
	IOOLATION REGISTANCE		Parameter Standard Test Level / Note									
			Parameter Standard lest Level / Note BS EN/EN55032(CISPR32)/EN55011 . FCC Part15 .									
SAFETY &	EMC EMISSION		Conducted emission	CNS	CNS15936, GB/T 9254.1-2021 Class B BS EN/EN55032/CISPR32)/EN55011 ECC Part 15							
EMC (Note. 8)			Radiated emission		15936, GB/T 9254.1	,	Class	в В				
, ,			Harmonic current		BS EN/EN61000-3-2 Class A							
-			Parameter	Stand	dard		Test	Test Level /Note				
			ESD		N/EN61000-4-2			Level 3, 15KV air; Level 2, 8KV contact				
			RF field susceptibil									
					N/EN61000-4-3			Level 2, 3V/m				
			EFT bursts	BS EI	N/EN61000-4-4			el 2, 1KV				
	EMC IMMUNITY	•	Surge susceptibility		N/EN61000-4-5			Level 3, 1KV/L-N				
			Conducted suscepti	bility BS EI	N/EN61000-4-6		Lev	Level 2, 3V				
			Magnetic field immu	nity BS EI	N/EN61000-4-8		Lev	el 1, 1A/m				
			Voltage dips , interru	uption BS El	N/EN61000-4-11			>95% dip 0. 5 periods, 30% dip 25 period >95% interruptions 250 periods				
	MTBF		749.9 Khrs min.	MIL-HDBK-217F	(25°C) 6361.	6 Khrs min. Telco	ordia TR/SR-332(B	Bellcore) (25°€)				
OTUEDO	DIMENSION		62*30*65mm (L*W*H)									
OTHERS	PACKING	MAIN BODY	196g; 60pcs/ 13.4Kg / 0.91CUFT for NGE45Ixx/Uxx-P1J 211g; 45pcs/ 11.4Kg / 1.06CUFT for NGE45Exx-P1J									
		AC PLUGS	Refer to Page 3									
	PLUG		See page 6~7; O	ther type available	e by customer reque	sted						
CONNECTOR	CABLE				e by customer reque	sted						
NOTE	1.All parameters are specified at 230VAC input, rated load, 25°C 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 0.1uf & 47uf 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."						h the					
	9.Design meet	t US DoE Level	meanwell.com//Up VII (from Docket n : For detailed infor	umber EERE-202		neanwell.com/servi	ceDisclaimer.aspx	File Name:NGE				



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

	NGE45lxx-P1J					NGE45Exx-P1J	NGE45Uxx-P1J		
Model NO.						Marie Sections of the Control of the	Marie Carlos Car		
	Interchangeable Type								
AC plug	EU	US	UK	AU	CN	Non-Interchangeable Type			
Certificate				₩us <u>æ</u>		CB ≥DEKRA EHI C €	CB _c Us c Us us Raylog Robes RAY RAY RAY RAY RAY RAY RAY RA		

■ AC Plugs Accessory (Sold Seperately)

MW's order NO.	Per Pack	Per Bag	Per C	arton
WW Solder NO.	Photo for one unit	Q'Ty	Q'Ty	G.W.
AC PLUG-EU4		30pcs	300 pcs (10packs)	5.6Kg
AC PLUG-US4	&	30pcs	300 pcs (10packs)	5.3Kg
AC PLUG-UK4		30pcs	300 pcs (10packs)	7.1Kg
AC PLUG-AU4		30pcs	300 pcs (10packs)	5.3Kg
AC PLUG-CN4		30pcs	300 pcs (10packs)	5.4Kg
AC PLUG-MIX4		6*5 Types (EU4*1,US4*1) UK4*1,AU4*1 CN4*1	60*5 Types =300 pcs (10packs)	5.74Kg



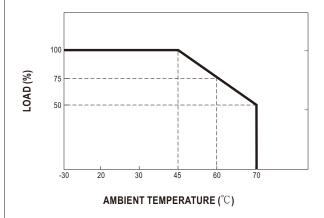
■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

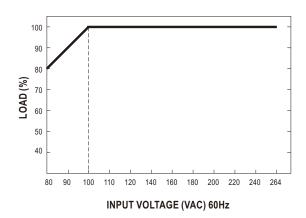
Note:

NGE45I main body unit and AC inlet plug should be ordered separately; It needs to be used along with any of the AC inlet plug (EU,US,UK,AU,CN), the AC plug can be changeable to EU,US,UK,AU,CN type with additional converter.

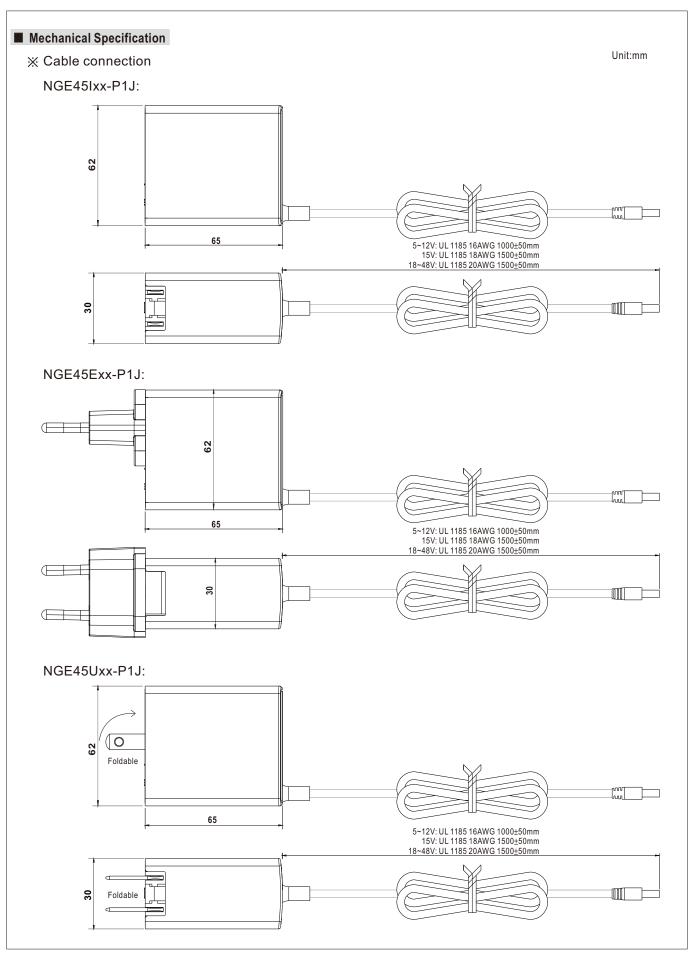
■ Derating Curve



■ Static Characteristics









■ 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: https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:



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

	Tuning Fo	rk Style	Type No.	Α	В	С	Quick Adapter
	running r or	ik Otyle	турстчо.	OD	ID	L	Accessory
		- C	P1I	5.5	2.1	9.5	
		(Straight)	P1L	5.5	2.5	9.5	
West of the second	A		P1M	5.5	2.5	11.0	
		_ C	P1IR	5.5	2.1	9.5	Available
	→ J-B		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)
			P1LR	5.5	2.5	9.5	
		(Right-angled)	P1MR	5.5	2.5	11.0	
	Barrol	Stylo	Tour a Nila	Α	В	С	
Barrel Style			Type No.	OD	ID	L	
	A B	(Straight)	P2I	5.5	2.1	9.5	None
			P2J	5.5	2.1	11.0	
			P2L	5.5	2.5	9.5	
			P2M	5.5	2.5	11.0	
			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.	Α	В	С	
			Type No.	OD	ID	L	
L	A	Floating Locking B	P2S(S761K)	5.53	2.03	12.06	None
			P2K(761K)	5.53	2.54	12.06	INOTIE
	<u>J</u> B		P2C(S760K)	5.53	2.03	9.52	
•		SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52	



Min. Pin Style	Type No.	А		В	С	Quick Adapter	
Willi. Fill Style	туре но.	OD		ID	L	Accessory	
,A. -C-	P3A	2.35	(0.7	11.0	Available (Current rating: 5A max.)	
	P3B	4.0	,	1.7	11.0		
EIAJ equivalent	P3C	4.75		1.7	11.0		
Center Pin Style	Type No.	А	В	С	D		
Genter Fin Style	туре но.	OD	ID	L	Center Pin		
A 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		
·	Type No	Р	in Assi	gnment			
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No	Output		ut		
	R6B	1		+Vo)	Available	
		2		-Vo		(Current rating: 7.5A max.)	
KYCON KPPX-3P equivalent		3		+Vo)		
	Type No.	Pin Assignment					
Min. DIN 4 Pin with Lock (male)		PIN No	No. Output		ut	Available (Current rating: 7.5A max.)	
	R7B	1		+Vo			
2 3 IIIII P 3 a		2		-Vo			
KYCON KPPX-4P equivalent		3		-Vo			
The contract of the contract o		4 +Vo		_			
Stripped and tinned leads	Type No.	Pin Assignment			4		
ompred and miner reduc	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PIN No		Output		None	
	by customer	1 (Ribbed)	+Vo			
L I Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	by customer	2 (Letter)	-Vo			

■ Installation Manual

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