

(Cable connection)





















Features

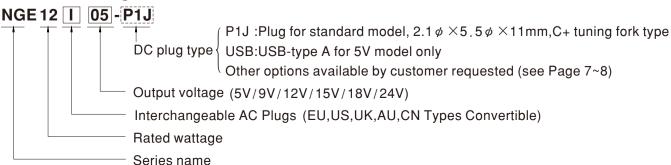
- MEANWELL Patent Application Number: 202330347779.4
- Interchangeable AC plugs
- · Global certificates in multi-fields (ITE 62368-1, Medical 60601-1, Household 60335-1,Industrial 61558-1/-2-16)
- Universal AC input / Full range
- Ultra slim(28mm)
- No load power consumption < 0.075W
- Energy efficiency 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

NGE12 is a highly reliable, 12W 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. NGE12 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 88.5% and the extremely low no-load power consumption below 0.075W, NGE12 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





(USB connection)

















Applications

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

GTIN CODE

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



		NGE12O)5-□				1	1	1	
			USB		-P1J N	IGE12○12-P1J	NGE12〇15-P1J	NGE12○18-P1J	NGE12O24-P1	
		○ = I, U, E	<u> </u>							
DC VOLTAGE	Note.2	5V		9V	1	2V	15V	18V	24V	
RATED CURRI	ENT	2.4A		1.33A	1	.0A	0.8A	0.83A	0.625A	
CURRENT RA	NGE	0 ~ 2.4A		0 ~ 1.33A	0) ~ 1.0A	0 ~ 0.8A	0 ~ 0.83A	0 ~ 0.625A	
RATED POWE	R	12W		12W	1	2W	12W	15W	15W	
		60mVp-p		100mVp-p	1	20mVp-p	150mVn-n	180mVn-n	240mVp-p	
. ,									±3.0%	
					_				±1.0%	
		±5.0%		±3.0%	±3.0%					
SETUP, RISE,	HOLD UP TIME	1500ms, 30ms, 30ms / 230VAC 3000ms, 30ms, 10ms / 115VAC at full load								
VOLTAGE RAN	NGE Note.7	80 ~ 264VAC 113 ~ 370VDC								
FREQUENCY I	RANGE	47 ~ 63Hz	7 ~ 63Hz							
EFFICIENCY (Typ.)		82%		86.5%	8	37.5%	87%	88 5%	88.5%	
, ,			۸۲ ۸ ۵ ۵ ۸ ۸				10.70	00.070	00.070	
	, ,				BUVAC					
LEAKAGE CUI	RRENT (max.)	Touch currer	nt < 100uA (rr	ns) @264VAC						
OVERLOAR		110% ~ 150	% rated outp	out power						
OVERLUAD		Protection	type : Hiccur	mode, recove	ers auto	matically after fau	t condition is remove	d		
AVER VC: To			% rated out	out voltage						
OVER VOLTAGE			•		е					
WORKING TE	MD			•						
			`)					
STORAGE TEN	MP., HUMIDITY	-20 ~ +85°C	, 10 ~ 95% F	RH non-conden	sing					
TEMP. COEFFI	CIENT	±0.03% / °C (0~45°C)								
VIBRATION		10 ~ 500Hz	2G 10min./1	lcycle, period f	or 60mir	n. each along X, Y,	Zaxes			
SAI LIT STANDANDS		RCM AS/NZS 61558-1/-2-16; EAC TPTC004; CCC GB4943.1 approved. (Please refer to next page for more details)								
WITHSTAND V	OLTAGE	I/P-O/P:4000VAC								
ISOLATION RE	SISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
		Parameter Standard						Test Level / Note		
		BS EN/EN55032/CISPR32\/EN55011								
		Conducted emission Class D								
EMC EMISSION		·					EN55011 , FCC Part15 ,	Class B		
		Harmonic current			BS EN/EN61000-3-2			Class A		
								Level 3, 15KV air; Level 2, 8KV contact		
		' '								
EMC IMM	,	0						· ·		
EINIC IIVIIVIUNI I Y	ı							1 1 1 1 1		
		Conducted susceptibility BS EN/EN61000-4-6					· · · · · · · · · · · · · · · · · · ·			
		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 period >95% interruptions 250 periods		
MTBF		1272.8 Khrs	min. MIL	-HDBK-217F (2	25°C)	7192.4 Khrs n	nin. Telcordia TR/S	R-332(Bellcore) (25°C	()	
DIMENSION								, , , , ,		
			, ,	I.I NIGE121V	Y-IIQD	NGE12Evy D1	I NGE12Evy LISB	NGF12LIvv.D1 I	NGE12Uxx-USB	
					-UUD					
									71g	
PACKING									150pcs	
							-		12.5kg	
	AC PLUGS	Refer to Pag	ge 3							
PLUG		See page 7~8; Other type available by customer requested								
CABLE		See page 7	-8 ; Other ty	pe available by	custom	er requested				
2.DC voltage: 3.Ripple & no 4.Tolerance: ii 5.Line regulati 6.Load regula 7.Derating ma	The output volta ise are measure ncludes set up to ion is measured tion is measured by be needed un	age set at pod at 20MHz blerance, line from low line of the low line of the low inputer lo	int measure by using a 1 regulation, to high line 100% rated t voltage. Ple	by plug terming 2" twisted pair load regulation at rated load. load ease check the	nal & 50 r termina n. e deratin al equip	% load. ated with a 0.1uf & and curve for more of	details.		with the	
	RATED CURRIC CURRENT RAI RATED POWE RIPPLE & NOI VOLTAGE TOL LINE REGULA LOAD REGUL SETUP, RISE, VOLTAGE RAN FREQUENCY (AC CURRENT INRUSH CURE LEAKAGE CUI OVERLOAD OVER VOLTAGE WORKING TEI WORKING HUI STORAGE TEI TEMP. COEFFI VIBRATION SAFETY STAN WITHSTAND V ISOLATION REED COMMENT OF TEMP. COEFFI VIBRATION EMC EMC EMISSION EMC EMISSION EMC EMISSION EMC EMISSION PACKING PLUG CABLE 1. All paramete 1. All parame	RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.3 VOLTAGE TOLERANCE Note.4 LINE REGULATION Note.6 SETUP, RISE, HOLD UP TIME VOLTAGE RANGE Note.7 FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT (max.) LEAKAGE CURRENT (max.) OVERLOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION MAIN BODY AC PLUGS PLUG CABLE 1.All parameters are specified 2.DC voltages are measure 4.Tolerance: includes set up to 5.Licard regulation in smeasure 6.Licard regulation in smeasure 6.Licard regulation in smeasure 6.Licard regulation in smeasure 6.Licard regulation in smeasure 7.Derating may be needed on 7.Derating may be	Note.2 5 V RATED CURRENT 2.4A	DC VOLTAGE	DC VOLTAGE Note.2 SV	DC VOLTAGE	DC VOLTAGE Note 2 24A	DC VOLTAGE Note.2 SV SV SV 12V 15V	DE VOLTAGE Non.2 5V	

- 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 NGE12/18/30/45/65/90 (I-Type)

Model NO.		NGE	12Ixx- =	P1J USB	NGE12Exx- = P1J USB	NGE12Uxx- =P1J USB	
AC plug	Interchangeable Type EU US UK AU CN White Au CN The					Non-Interchangeable	Туре
Certificate				Uk F©		CB PDEKRA	CB _c Us CD us

■ 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



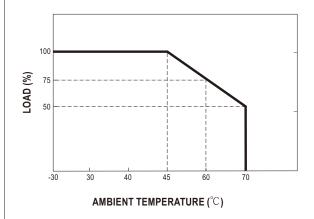
■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

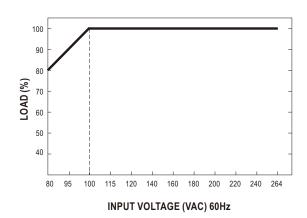
Note:

NGE12I 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.

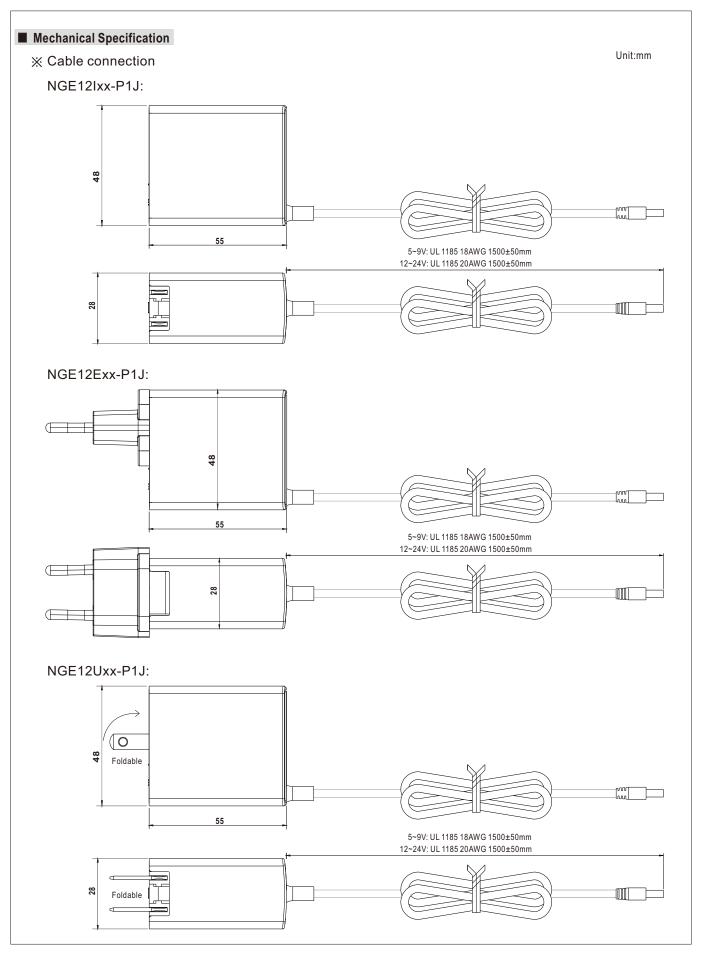
■ Derating Curve



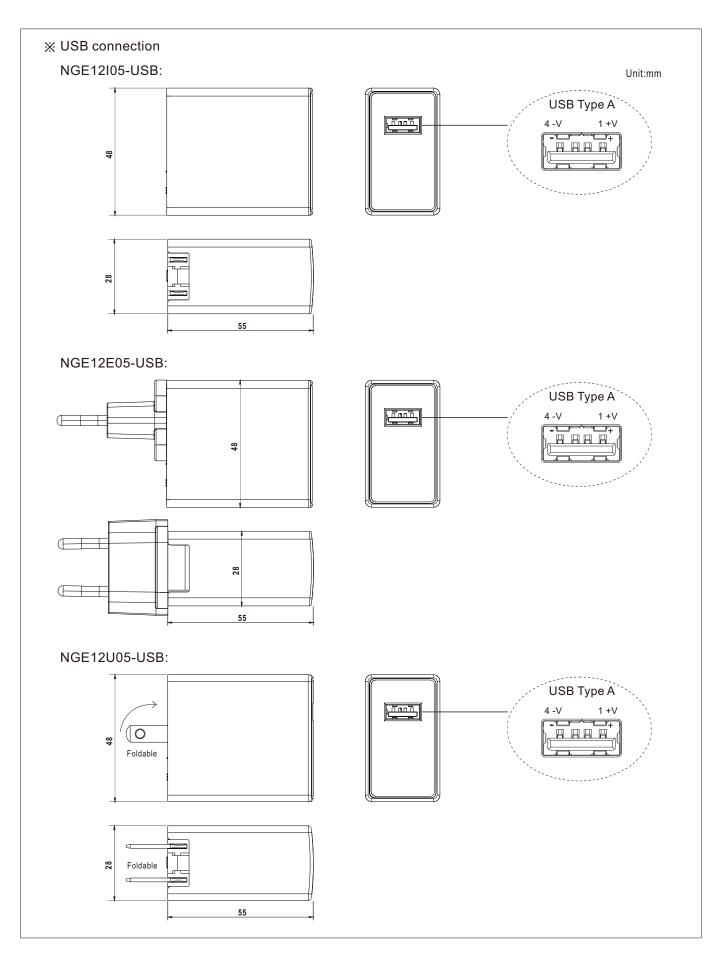
■ Static Characteristics









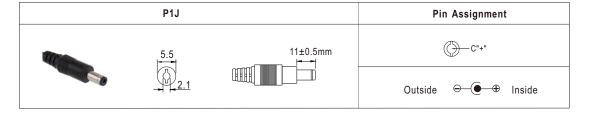




■ DC Output Plug

O Standard plug: P1J

Unit:mm



- 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 Fork Style			Type No.	Α	В	С	Quick Adapter
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OD	ID	L	Accessory
		_ C	P1I	5.5	2.1	9.5	
		(Straight)	P1L	5.5	2.5	9.5	
Welling	A		P1M	5.5	2.5	11.0	Available
			P1IR	5.5	2.1	9.5	
	- □-□		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)
		(Dialet analad)	P1LR	5.5	2.5	9.5	
		(Right-angled)	P1MR	5.5	2.5	11.0	
Barrel Style			Type No.	Α	В	С	
			Type No.	OD	ID	L	
	A B	C C	P2I	5.5	2.1	9.5	None
			P2J	5.5	2.1	11.0	
			P2L	5.5	2.5	9.5	
		(Straight)	P2M	5.5	2.5	11.0	None
		C	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.	А	В	С		
		туретчо.	OD	ID	L		
	A	Floating Locking	P2S(S761K)	5.53	2.03	12.06	None
			P2K(761K)	5.53	2.54	12.06	INUITE
			P2C(S760K)	5.53	2.03	9.52	
Ţ.		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	Pin Assignment				
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No		Output		Available
		1		+Vo		
	R6B	2		-Vo		(Current rating: 7.5A max.)
KYCON KPPX-3P equivalent		3		+Vo)	
	T NI -	Pin Assignment				
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No		Output		Available (Current rating: 7.5A max.)
		1		+Vo		
2 3 E G	R7B	2		-Vo -Vo		
KYCON KPPX-4P equivalent		3				
The contract of the contract o		4 +Vo				
Stripped and tinned leads	Type No.	Pin Assignment				
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PIN No		Output		None
	by customer	1 (Ribbed)	+Vo		
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	.,	2 (Letter)	-Vo		

■ Installation Manual

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