









(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
- Energy efficiency Level VI
- Class II power (no earth pin)
- Protections: Short circuit / Overload / Over voltage

Series name

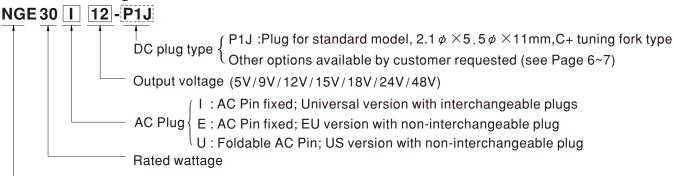
- · Pass LPS
- Extremely low leakage current <100uA
- -30°C ~+70°C wide range working temperature
- · Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to : https://www.meanwell.com/upload/pdf/DC plug.pdf)
- · 3 years warranty

Description

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

30W AC-DC Reliable Wall-mounted Interchangeable Type Green Adaptor NGE 30 series

		NGE30 05-P1 I	NGE30 00-P1	I NGE30 12-P1 I	NGE30 15-P1 I	NGE30 18-P1	I NGE30 ○24-P1 I	NGE30 18-P1 I		
SPECIFICATION		NGE30 ○ 05-P1J NGE30 ○ 09-P1J NGE30 ○ 12-P1J NGE30 ○ 15-P1J NGE30 ○ 18-P1J NGE30 ○ 24-P1J NGE30 ○ 48-P1J ○ = I, U, E								
OUTPUT		O = 1, U, L								
OUTPUT	N	5)/	0.4	401/	45)/	40)/	0.01	40)/		
DC VOLTAGE	Note.2	5V	9V	12V	15V	18V	24V	48V		
RATED CURRENT		4A	3.33A	2.5A	2A	1.66A	1.25A	0.63A		
CURRENT RANGE		0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.66A	0 ~ 1.25A	0 ~ 0.63A		
RATED POWER		20W	30W	30W	30W	30W	30W	30W		
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 REGULATION	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 TIN	1E	1500ms, 30ms, 30	Oms / 230VAC	3000ms, 30ms, 1	0ms / 115VAC at fu	ll load				
INPUT										
VOLTAGE RANGE	Note.7	80 ~ 264VAC	113 ~ 370VDC							
FREQUENCY RANGE		47 ~ 63Hz								
EFFICIENCY (Typ.)		82.5%	87.5%	88.5%	87%	88%	88.5%	91.5%		
AC CURRENT			.6A / 230VAC	00.070	10.70	1 00 //	00.070			
INRUSH CURRENT (max.)		COLD START 35A / 115VAC 70A / 230VAC								
LEAKAGE CURRENT (max	1	Touch current < 100uA (rms) @264VAC								
,	•1	Touch current < 10	ouA (1113) @204 V	AC .						
PROTECTION		4400/ 4500/	. d. a t							
OVERLOAD		110% ~ 150% rate		e, recovers automatic	ally after fault conditi	on is removed				
				latch off o/p voltage,						
OVER VOLTAGE		110% ~ 140% rate	ed output voltage							
OVER VOLIAGE		Protection type : 0	Clamp by zener o	liode						
ENVIRONMENT										
WORKING TEMP.		-30 ~ +70°C (Refe	r to "Derating Cu	rve")						
WORKING HUMIDITY	20% ~ 90% RH non-condensing									
STORAGE TEMP., HUMIDIT	$-20 \sim +85^{\circ}$ C, $10 \sim 95\%$ RH non-condensing									
TEMP. COEFFICIENT $\pm 0.03\%$ / $^{\circ}$ C $(0 \sim 45\%)$										
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC	Note.8									
SAFETY STANDARDS		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 no	ext page for more	e details)						
WITHSTAND VOLTAGE		I/P-O/P:4000VAC								
ISOLATION RESISTANCE		I/P-O/P:100M Ohn				1_				
EMC EMISSION		Parameter Conducted emission	BS E CNS	dard EN/EN55032(CISPR3 15936, GB/T 9254.1-	2021, KC C9832	Part15 , Class	Level / Note s B			
EMC EMISSION		Radiated emission	CNS	N/EN55032(CISPR3 15936, GB/T 9254.1-		Class	Class B Class A			
		Harmonic current		N/EN61000-3-2			-			
		Parameter		dard			Level /Note			
		ESD		N/EN61000-4-2		Leve	Level 4, 15KV air; Level 4,8KV contact			
		RF field susceptibili	ty BS E	N/EN61000-4-3		Leve	Level 2, 3V/m			
		EFT bursts	BS E	N/EN61000-4-4		Leve	el 3, 2KV			
EMC IMMUNITY		Surge susceptibility	BS E	N/EN61000-4-5		Leve	el 3, 1KV/L-N			
		Conducted susceptil	oility BS E	N/EN61000-4-6		Leve	el 2, 3V			
		Magnetic field immu	ity BS EN/EN61000-4-8 Level 2, 3A/m							
		Voltage dips , interru	iption BS E	N/EN61000-4-11			% dip 0. 5 periods, 30			
OTHERS.			.			>95	% interruptions 250 pe	HIOUS		
OTHERS MTBF		1078.6 Khrs min.	MIL LIDEK 247	7F (25°C) 7F	27.5 Khre min To	alcordia TD/SD 221	2(Rellcoro) (25°C)			
			MIL-HDBK-217	758	37.5 Khrs min. Te	elcordia TR/SR-332	z(belicore) (25 C)			
DIMENSION	MAIN DODY	62*30*65mm (L*W*H)								
PACKING	MAIN BODY AC PLUGS	148g; 60pcs/ 10.5Kg / 0.94CUFT for NGE30Ixx/Uxx-P1J 162g; 45pcs/ 9.2Kg / 1.06CUFT for NGE30Exx-P1J Refer to Page 3								
DC OUTPUT CONNECTOR	701 2000	There to Fage 3								
PLUG		See page 6~7 · O	ther type available	e by customer reque	sted					
CABLE	See page 6~7; Other type available by customer requested									
NOTE			, ро атапарт							
1.All parameters are specifi	ed at 230VAC in	nput, rated load. 25	℃ 70% RH amh	pient.						
0 DO 11 TI	-14	,								

- 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 0.1 μ F & 47 μ F 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."
 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
 9.Design meet US DoE Level VII (from Docket number EERE-2020-BT-STD-0006).

 3. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx
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■ 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	E de la companya de l	US 🐇	UK	AU	CN	KR	E E	Unfoldable AC Pin	Foldable AC Pin	
Certificate			KRA 📤					CB ≥DEKRA [H[C €	CBA © c Us F C ROSTO	

■ AC Plugs Accessory (Sold Seperately)

1010	5	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	&	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



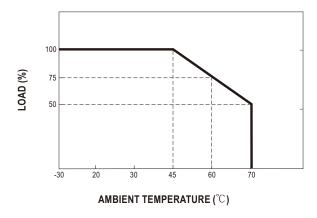
■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

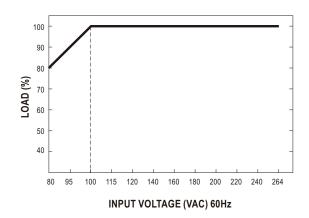
Note:

- 1. 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).

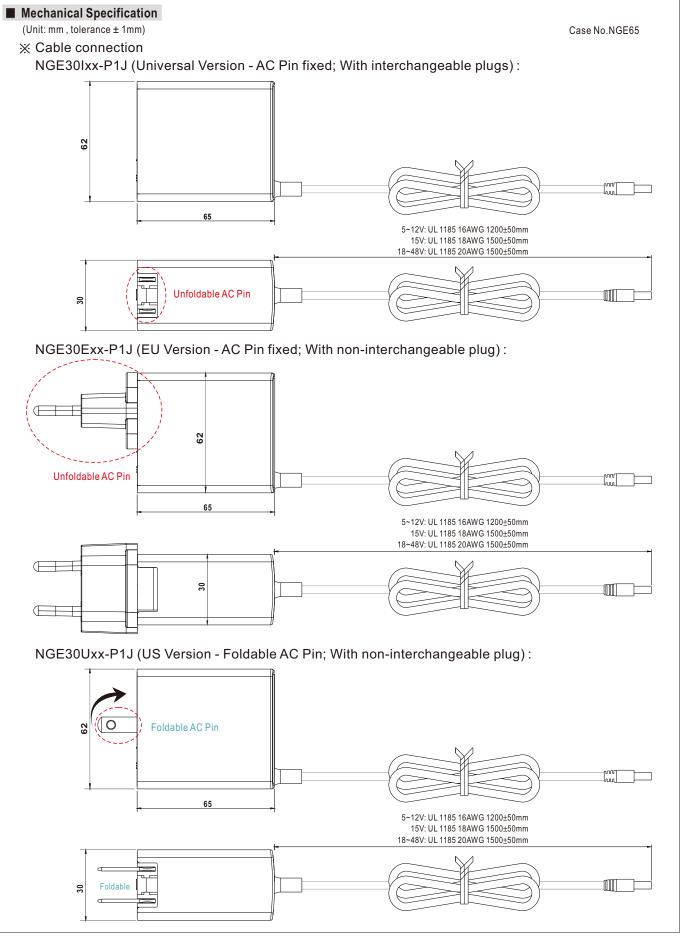
■ Derating Curve



■ Static Characteristics





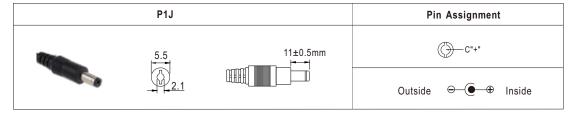




■ DC Output Plug

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. 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 5.5 P1R 6 Current rating: 7.5Ar P1R 7.5Ar	max.)
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 P1IR 5.5 2.1 11.0 P1IR 5.5 2.5 9.5 P1JR 5.5 2.5 9.5 P1MR 5.5 2.5 11.0 P1MR 5.5 2.5 2.5 P1MR 5	max.)
C C C C C C C C C C	max.)
No. Carried to the large of	max.)
P1JR 5.5 2.1 11.0	max.)
P1JR 5.5 2.1 11.0	max.)
(Right-angled) P1MR 5.5 2.5 11.0 Barrel Style Type No. A B C OD ID L	
Barrel Style	
Barrer Style Type No. OD ID L	
OD ID L	
DOI 5.5 0.4 0.5	
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 None	
P2K(761K) 5.53 2.54 12.06	
P2K(761K) 5.53 2.54 12.06 P2C(S760K) 5.53 2.03 9.52	
SWITCHCRAFT original or equivalent P2D(760K) 5.53 2.54 9.52	



	- N	A		В	С	Quick Adapter	
Min. Pin Style	Type No.	OD		ID	L	Accessory	
. A. EC	P3A	2.35	(0.7	11.0	A!II.	
	P3B	4.0		1.7	11.0	Available (Current rating: 5A max.)	
ElAJ equivalent	P3C	4.75		1.7	11.0	(Guiront runing, Grimax.)	
Contar Din Style	Type No.	А	В	С	D		
Center Pin Style	Type No.	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)	Type No	P	in Assi	Assignment			
Willi. DIN 3 Pill Willi Lock (Illale)	Type No.	PIN No).	Outp	ut		
		1		+Vo		Available (Current rating: 7.5A max.)	
	R6B	2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo)		
	Tons a Ma	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No. Output					
		1		+Vo		Available (Current rating: 7.5A max.)	
2 3 IIIII A	R7B	2		-Vo -Vo			
1 4 KYCON KPPX-4P equivalent		3					
TOOM IT A SQUINGOIL				+\/(
Stripped and tinned leads	Type No.	Pin Assignmer		•			
Ompped and inned leads	1,700110.	PIN No).	Output			
1	by customer	1 (Ribbed)	+Vo)	None	
L1 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