









(NGE18I)

(NGE18E)

(NGE18U)













































#### 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(28mm)
- 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">https://www.meanwell.com/upload/pdf/DC</a> plug.pdf)
- · 3 years warranty

# Applications

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

#### GTIN CODE

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

# Description

NGE18 is a highly reliable, 18W 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. NGE18 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% and the extremely low no-load power consumption below 0.075W, NGE18 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



MEAN MEET		W0740007774	W0740 0 00 744	NOTICE AS DAIL	NATA O AT DA I	NOTA O AS DA L				
SPECIFICATION		NGE18©05-P1J   NGE18©09-P1J   NGE18©12-P1J   NGE18©15-P1J   NGE18©18-P1J   NGE18©24-P1J   O = I, U, E								
OUTPUT	_	0 1, 0, 2								
DC VOLTAGE	Note.2	5V	9V	12V	15V	18V	24V			
RATED CURRENT		3A	2A	1.5A	1.2A	1A	0.75A			
CURRENT RANGE		0 ~ 3A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.2A	0 ~ 1A	0 ~ 0.75A			
RATED POWER		15W	18W	18W	18W	18W				
RIPPLE & NOISE (max.)	Note.3	60mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p			
VOLTAGE TOLERANCE	Note.4	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%				
LINE REGULATION	Note.5	±1.0%	±1.0%	±3.0% ±1.0%	±1.0%	±1.0%	±1.0%			
LOAD REGULATION	Note.6	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%			
SETUP, RISE, HOLD UP TII		1500ms, 30ms, 30ms		ms, 30ms, 10ms / 115\		1	1			
INPUT				.,						
VOLTAGE RANGE	Note.7	80 ~ 264Vac 113	3 ~ 370Vdc							
FREQUENCY RANGE		47 ~ 63Hz								
EFFICIENCY (Typ.)		82%	87.5%	87%	87%	88%	88%			
AC CURRENT			25A / 230Vac	10170	0.70	1 00 /0	1 00 70			
INRUSH CURRENT (max.)			115Vac 80A / 230Va	ar						
LEAKAGE CURRENT (max		Touch current < 100u		10						
PROTECTION	·· <i>,</i>	Todali dali dili 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	71(1110) @201740							
		110% ~ 150% rated	output power							
OVERLOAD				automatically after fa	ult condition is remove	ed				
		115% ~ 140% rated	•	automationly after la	a contamon is remove	- u				
OVER VOLTAGE		Protection type : Cla								
ENVIRONMENT		r rotection type . Cla	amp by Zener diode							
WORKING TEMP.		-30 ~ +70°C (Refer to	"Derating Curve")							
WORKING HUMIDITY										
STORAGE TEMP., HUMIDIT	rv		20% ~ 90% RH non-condensing -20 ~ +85°C, 10 ~ 95% RH non-condensing							
TEMP. COEFFICIENT	''	±0.03% / °C (0 ~ 45°C		9						
VIBRATION										
SAFETY & EMC	Note.8	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY STANDARDS		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 CN515598-1; RCM AS/NZS 62368-1; EAC TPTC004; CCC GB4943.1 approved. KC KC62368-1; BIS IS13252(part1):2010/IEC60950-1:2005.								
		(Please refer to next	t page for more detai							
WITHSTAND VOLTAGE		I/P-O/P:4000Vac								
ISOLATION RESISTANCE	Ē		/ 500VDC / 25°C / 70%	6 RH						
		Parameter	Standard			Test Level / Note				
EMC EMISSION		Conducted emission		BS EN/EN55032(CISPR32)/EN55011 , FCC Part15 , CNS15936, GB/T 9254.1-2021, KC C9832			Class B			
EMC EMISSION		Radiated emission		BS EN/EN55032(CISPR32)/EN55011, FCC Part15, CNS15936, GB/T 9254.1-2021, KC C9832			Class B			
		Harmonic current	BS EN/EN61	000-3-2		Class A				
		Parameter	Standard			Test Level /Note				
		ESD	BS EN/EN61	000-4-2		Level 4, 15KV air; Level 4,8KV contact				
		RF field susceptibility	BS EN/EN61	000-4-3		Level 2, 3V/m				
		EFT bursts	BS EN/EN61			Level 3, 2KV				
		Surge susceptibility	BS EN/EN61			Level 3, 1KV/L-N				
EMC IMMUNITY		Conducted susceptibilit				Level 2, 3V				
		Magnetic field immunity	<i>'</i>			Level 4, 30A/m				
		Voltage dips , interruption BS EN/EN61000-4-11 Service 300 parieds					s, 30% dip 25 periods,			
		Fortage dips , interrupti	DO EIN/EINO I	000-4-11		>95% interruptions 25	50 periods			
OTHERS										
MTBF			MIL-HDBK-217F (25°C	7192.4 Khrs	min. Telcordia TR/S	SR-332(Bellcore) (25°C	C)			
DIMENSION		48*28*55mm (L*W*H)								
PACKING	MAIN BODY	112g; 96pcs/ 12.6Kg	/ 1.02CUFT for NGE1	8lxx/Uxx-P1J 12	27g; 72pcs/ 11.2Kg / 1.	36CUFT for NGE18Ex	x-P1J			
	AC PLUGS	Refer to Page 3								
DC OUTPUT CONNECTOR										
PLUG		See page 6~7 ; Other	er type available by cu	stomer requested						
CABLE		See page 6~7 ; Other	er type available by cu	stomer requested						
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 0.1 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).
- ※ 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)

		(	NGE18I (Universa		n)			NGE18Exx-P1J (EU Version)	NGE18Uxx-P1J (US Version)
Order NO.									
	Interchangeable Type (Unfoldable; AC Pin fixed)						Non-Interchangeable Type		
AC plug	EU	US	UK	AU	CN	KR	IN		
710 plug			<b>M</b>					Unfoldable AC Pin	Foldable AC Pin
Certificate	CB DEKRA A O O O O O O O O O O O O O O O O O O						CB DEKRA	CBA © c U us	
Certificate	R33100 RoHS	c 7	os tHL		( <del>C</del> E			ERIC€	CSU US FC

# ■ AC Plugs Accessory (Sold Seperately)

	5	Per Bag	Per Carton		
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	



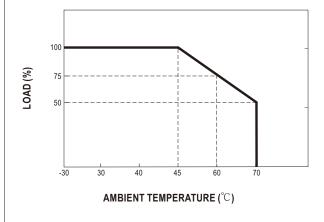
### ■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

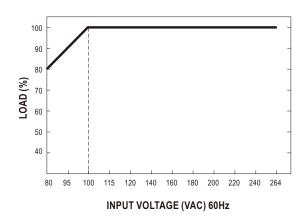
#### Note:

- 1. NGE18I main body unit and AC inlet plug should be ordered separately.
- 2. NGE18I needs to be used along with one of the AC inlet plug (EU,US,UK,AU,CN,KR,IN).

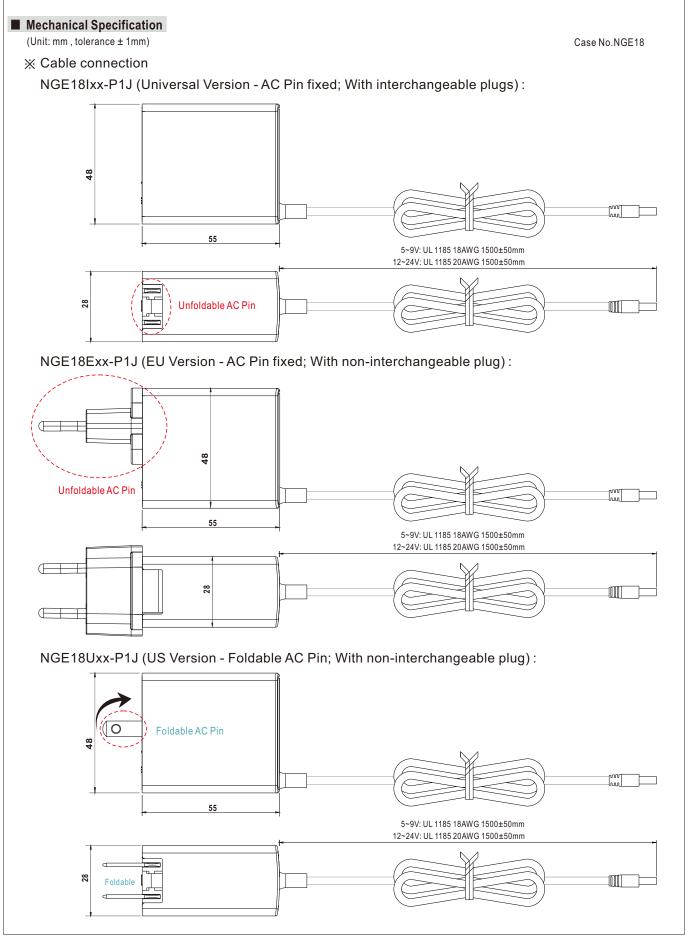
## ■ Derating Curve



### ■ Static Characteristics









### ■ DC Output Plug

### O Standard plug: P1J

Unit:mm

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.	Α	В	С	Quick Adapter	
			турстчо.	OD	ID	L	Accessory	
		(Straight)	P1I	5.5	2.1	9.5		
			P1L	5.5	2.5	9.5		
TO COMMENT	A		P1M	5.5	2.5	11.0		
			P1IR	5.5	2.1	9.5	Available	
	<u> →                                   </u>		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		
Barrel Style			Type No.	Α	В	С		
				OD	ID	L		
		(Straight)	P2I P2J P2L	5.5	2.1	9.5	- None	
	A B			5.5	2.1	11.0		
				5.5	2.5	9.5		
			P2M	5.5	2.5	11.0		
			P2IR	5.5	2.1	9.5		
-			P2JR	2JR 5.5	2.1	11.0		
			(Pight-angled) P2LR	P2LR	5.5	2.5	9.5	
		(Right-angled)	P2MR	5.5	2.5	11.0		
Look Chilo		Type No.	А	В	С			
	Lock Style			OD	ID	L		
<b>—</b>	A	Floating Locking  B	P2S(S761K)	5.53	2.03	12.06	None	
			P2K(761K)	5.53	2.54	12.06	NULLE	
			P2C(S760K)	5.53	2.03	9.52		
•	1 1-	SWITCHCRAFT original or equivalent	P2D(760K)	5.53	2.54	9.52		



	- 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 (Current rating: 5A max.)	
	P3B	4.0		1.7	11.0		
EIAJ equivalent	P3C	4.75		1.7	11.0	(Gunemianing: Grimani)	
Center Pin Style	Type No.	А	В	С	D		
Genter Fin Style	Type No.	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	gnment			
Willi. DIN 3 Pill Willi Lock (Illale)	Type No.	PIN No	o. Output		ut		
		1		+Vo	)	Available	
(°°) <sub>1</sub> 2	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	o. Output		ıt	Available (Current rating: 7.5A max.)	
	R7B	1		+Vo			
2 3 IIIII A		2		-Vo -Vo			
KYCON KPPX-4P equivalent		3					
TOOTH TAIN OQUITAGE		4 +Vo					
Stripped and tinned leads	Type No.	Pin Assignment					
ompred and mined reduc	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	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 customer	2 ( Letter	)	-Vo			

## ■ Installation Manual

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