









(NGE18I)

(NGE18E)

(NGE18U)







CB DEKRA FCCE CHE Rendement Place Control Cont



























- 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\_plug.pdf">https://www.meanwell.com/upload/pdf/DC\_plug.pdf</a>)
- 3 years warranty

# 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



# Applications

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

#### GTIN CODE

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

# 18W AC-DC Reliable Wall-mounted Interchangeable Type Green Adaptor NGE 18 series

## **SPECIFICATION**

ORDER NO.		NGE18 05-P1J NGE18 09-P1J NGE18 12-P1J NGE18 15-P1J NGE18 18-P1J NGE18 24-P1								
DO VOLTAGE		○ = I, U, E								
	DC VOLTAGE			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		
OUTPUT	RATED POWER		15W	18W	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%	±3.0%		
	LINE REGULATION Note.5		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION Note.6		±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%		
							_0.070	_0.070		
	VOLTAGE RA		1500ms, 30ms, 30ms / 230VAC 3000ms, 30ms, 10ms / 115VAC at full load 80 ~ 264VAC 113 ~ 370VDC							
INPUT	FREQUENCY		47 ~ 63Hz	07.50/	0.70/	070/	1000/	1000/		
	EFFICIENCY (		82%	87.5%	87%	87%	88%	88%		
	AC CURRENT	'	0.4A / 115VAC 0.2	25A / 230VAC						
	INRUSH CUR	RENT (max.)	COLD START 40A / 1	15VAC 80A / 230VA	AC					
	<b>LEAKAGE CU</b>	RRENT (max.)	Touch current < 100u	A (rms) @264VAC						
	0./501.040		110% ~ 150% rated output power							
	OVERLOAD		Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION			115% ~ 140% rated output voltage							
	OVER VOLTA	GE								
	WORKING TE	MD.	Protection type: Clamp by zener diode							
	WORKING TE		-30 ~ +70 ℃ (Refer to "Derating Curve")							
	WORKING HU	MIDITY	20% ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-20 ~ +85°C, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT		±0.03% / °C (0 ~ 45°C)							
	VIBRATION		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 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 \	/OLTAGE	I/P-O/P:4000VAC							
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms	/ 500VDC / 25°C / 70%	RH					
	EMC EMISSION		Parameter	Standard			Test Level / Note			
			Conducted emission	CNS15936,	5032(CISPR32)/EN550 GB/T 9254.1-2021, KC	C9832	Class B			
			Radiated emission		BS EN/EN55032(CISPR32)/EN55011 , FCC Part15 , CNS15936, GB/T 9254.1-2021, KC C9832					
			Harmonic current		EN61000-3-2		Class A			
SAFETY &			Parameter	Standard	000 0 2		Test Level /Note			
EMC					1000-4-2		Level 4, 15KV air; Lev	al 1 9KV contact		
(Note. 8)			ESD	BS EN/EN610				ei 4,8KV contact		
(Note. 0)	EMC IMMUNITY		RF field susceptibility	BS EN/EN610			Level 2, 3V/m			
			EFT bursts	BS EN/EN610	000-4-4		Level 3, 2KV			
			Surge susceptibility	BS EN/EN61	000-4-5		Level 3, 1KV/L-N			
			Conducted susceptibilit	BS EN/EN610	000-4-6		Level 2, 3V			
			Magnetic field immunity	BS EN/EN61	000-4-8		Level 4, 30A/m			
			Voltage dips , interrupti			>95% dip 0. 5 period >95% interruptions 2	250 periods			
	MTBF		1272.8 Khrs min. MIL-HDBK-217F (25°C) 7192.4 Khrs min. Telcordia TR/SR-332(Bellcore) (25°C)							
0711500	DIMENSION		48*28*55mm (L*W*H)							
OTHERS	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		
	FACRING	AC PLUGS	Refer to Page 3							
OC OUTPUT	PLUG		See page 6~7; Other	r type available by cus	stomer requested					
CONNECTOR	CABLE		See page 6~7; Other type available by customer requested							
NOTE	<ul> <li>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</li> <li>2.DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</li> <li>3.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 μ F &amp; 47 μ F capacitor.</li> <li>4.Tolerance: includes set up tolerance, line regulation, load regulation.</li> <li>5.Line regulation is measured from low line to high line at rated load.</li> <li>6.Load regulation is measured from 0% to 100% rated load</li> <li>7.Derating may be needed under low input voltage. Please check the derating curve for more details.</li> <li>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."</li> </ul>									
	(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  File Name:NGE18-SPEC 2025-02									



# ■ 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			
7.0 plug	4	<b>&amp;</b>	N)					Unfoldable AC Pin	Foldable AC Pin	
	C	B	KRA 🛕	<b>(</b>	Dus 🕭	<b>(1)</b>		CB DEKRA		
Certificate							ERI ⊂ €	CRU US FC		

# ■ 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	<b>&amp;</b>	30 pcs	300 pcs (10 bags)	4.7Kg
AC PLUG-UK4	<b>*</b>	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



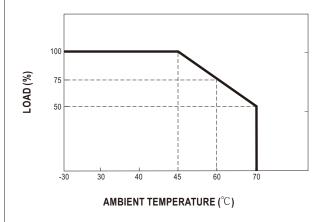
#### ■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

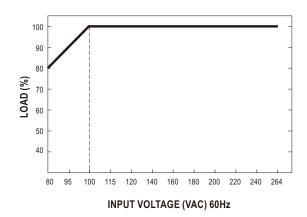
#### Note:

- 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).

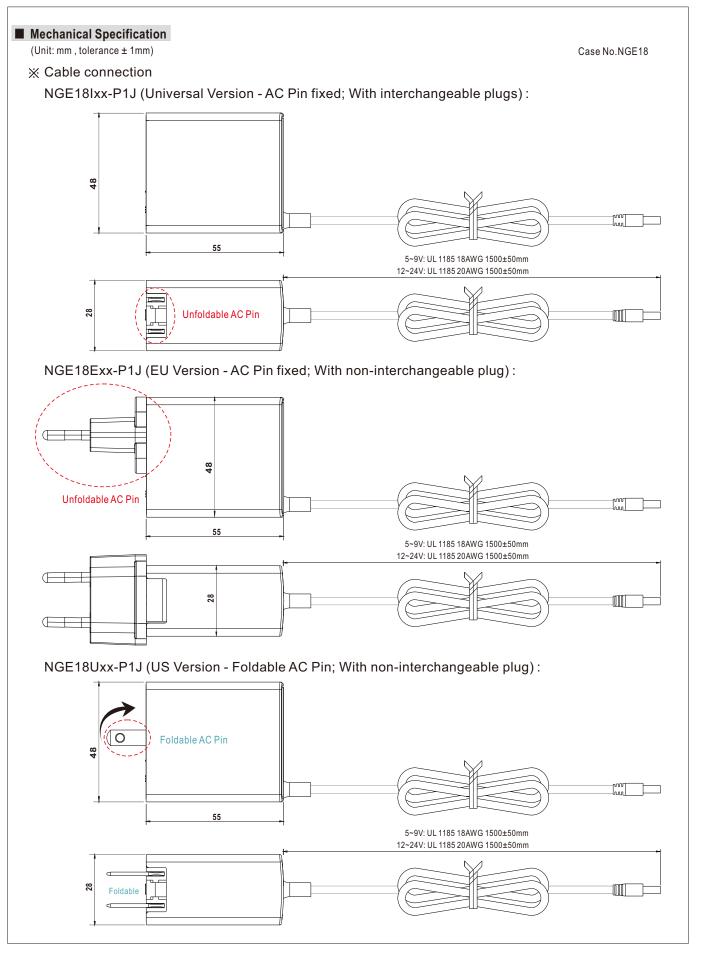
# ■ Derating Curve



#### ■ Static Characteristics





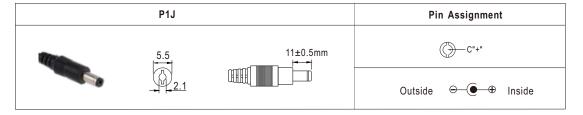




## ■ DC Output Plug

#### O Standard plug: P1J

Unit:mm



- 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  11.0  Available (Current rating: 7.5Ama)  P1MR  5.5  P1MR  FILR  FILR					
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					
Straight   P1M   5.5   2.5   11.0   Available   Current rating: 7.5Ama					
C   P1   S.5   2.5   11.0   Available   Current rating: 7.5Ama   P1   R   S.5   2.1   9.5   Current rating: 7.5Ama   P1   R   S.5   2.5   9.5   P1   R   S.5   2.5   S.5   S					
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					
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					
P1MR   5.5   2.5   11.0					
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					
C P2I 5.5 2.1 9.5 P2J 5.5 2.1 11.0	Barrel Style				
P2J 5.5 2.1 11.0	Dan el Style				
P2L   5.5   2.5   9.5   None					
(Straight) P2M 5.5 2.5 11.0					
P2IR 5.5 2.1 9.5					
P2JR 5.5 2.1 11.0					
(Pight-angled) P2LR 5.5 2.5 9.5					
(Right-angled) P2MR 5.5 2.5 11.0					
Lock Style Type No. A B C	Lock Style				
OD ID L					
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					
SWITCHCRAFT original or equivalent P2D(760K) 5.53 2.54 9.52	*				



Min. Pin Style	Type No.	A	_	В	С	Quick Adapter
. C .	P3A	OD 2.35		D.7	11.0	Accessory
A (HARATI )		4.0		1.7	11.0	Available
B WALL B	P3B P3C	4.75	_	1.7	11.0	(Current rating: 5A max.)
EIAJ equivalent	F30	4.75	В	C	D	
Center Pin Style	Type No.	OD	ID	ı	Center Pin	
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.)
ElAJ equivalent	P4C	7.4	5.1	11.0	0.6	
·				Assignment		
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No. Output				
		1		+Vo		Available (Current rating: 7.5A max.)
(°°) 1 <sub>2</sub> 2	R6B	2		-Vo		
KYCON KPPX-3P equivalent		3		+Vo	)	
	T NI -	Pin Assignment				
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No				Available (Current rating: 7.5A max.)
		1		+Vo		
2 3	R7B	2		-Vo -Vo		
KYCON KPPX-4P equivalent		3				
		4 +Vo				
Stripped and tinned leads	Type No.	Pin Assignment				
от грез вид виде в под в	71	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