























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

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 5 types of interchangeable AC plug (European, USA,U.K., Australian and China 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, 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.	ORDER NO.		NGE18 05-P1J NGE18 09-P1J NGE18 012-P1J NGE18 015-P1J NGE18 018-P1J NGE18 024-							
		○ = I, U, E								
	DC VOLTAGE	Note.2	5V	9V	12V	15V	18V	24V		
·	RATED CURR	RENT	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 POWE	R	15W	18W	18W	18W	18W	18W		
UTPUT	RIPPLE & NOISE (max.) Note.3		60mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p		
	VOLTAGE TOLERANCE Note.4			±5.0%	±3.0%	±3.0%	±3.0%	±3.0%		
	LINE REGULA		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
							_			
			±5.0%							
			1500ms, 30ms, 30ms / 230VAC 3000ms, 30ms, 10ms / 115VAC at full load							
			80 ~ 264VAC 113 ~ 370VDC							
	FREQUENCY RANGE		47 ~ 63Hz							
NPUT	EFFICIENCY (Typ.)		82%	87.5%	87%	87%	88%	88%		
NFUI	AC CURRENT		0.4A / 115VAC							
	INRUSH CURRENT (max.)		COLD START 40A / 115VAC 80A / 230VAC							
	LEAKAGE CURRENT (max.)		Touch current < 100uA (rms) @264VAC							
	22,110,102,00	ritteri (max.)	110% ~ 150% rated	(, 0						
	OVERLOAD				wars automatically off	er fault condition is remo	wod			
ROTECTION	OVER VOLTAGE				vers automatically art	er rault condition is remo) veu			
			115% ~ 140% rated output voltage							
			Protection type : Cla							
	WORKING TE	MP.	-30 ~ +70°C (Refer t	to "Derating Curv	e")					
	WORKING HUMIDITY		20% ~ 90% RH non-	condensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY		-20 ~ +85°C, 10 ~ 95	5% RH non-conde	ensing					
	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		UL UL62368-1, CSA C22.2 NO. 62368-1, ANSI/AAMI ES60601-1/-1-11(3.2 Version), CAN/CSA-C22.2 NO.60601-1/-1-1 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.							
			(Please refer to next page for more details)							
	WITHSTAND VOLTAGE		I/P-0/P:4000VAC							
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
			Parameter	Standa		Test Level / Note				
	EMC EMISSION		Conducted emission	CNS1	I/EN55032(CISPR32)/EI 5936, GB/T 9254.1-2021 I/EN55032(CISPR32)/EI 5936. GB/T 9254.1-2021	1 N55011 , FCC Part15 ,	Class B			
			Radiated emission		,	I	Class B			
			Harmonic current		/EN61000-3-2		Class A			
SAFETY &			Parameter	Standa	ard		Test Level /Note			
EMC			ESD	BS EN	/EN61000-4-2		Level 3, 15KV air; L	evel 2, 8KV contact		
Note. 8)			RF field susceptibility	BS EN	/EN61000-4-3		Level 2, 3V/m			
			EFT bursts	BS EN	/EN61000-4-4		Level 3, 2KV			
	EMC IMMUNIT	Υ	Surge susceptibility	BS EN	/EN61000-4-5		Level 3, 1KV/L-N			
			Conducted susceptibil		/EN61000-4-6		Level 2, 3V			
			Magnetic field immunit		/EN61000-4-8		Level 1, 1A/m			
			Voltage dips , interrupt		/EN61000-4-11		>95% dip 0. 5 periods, 30% dip 25 pe >95% interruptions 250 periods			
	MTBF		1272.8 Khrs min. MIL-HDBK-217F (25℃) 7192.4 Khrs min. Telcordia TR/SR-332(Bellcore) (25℃)							
	DIMENSION		48*28*55mm (L*W*H)							
OTHERS	PACKING	MAIN BODY AC PLUGS	112g; 96pcs/ 12.6Kg Refer to Page 3	g / 1.02CUFT for	NGE18lxx/Uxx-P1J	.36CUFT for NGE18Exx-P1J				
OC OUTPUT	PLUG		See page 6~7 ; Other	er type available	by customer requested					
	CABLE		See page 6~7 : Other	er type available	by customer 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 File Name:NGE18-SPEC 2024-03									



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

Order NO.	NGE18Ixx-P1J (Universal Versio		NGE18Exx-P1J (EU Version)	NGE18Uxx-P1J (US Version)		
AC plug	Interchangeable (Unfoldable; AC P	• •	Non-Intercha Unfoldable AC Pin	Non-Interchangeable Type ble AC Pin Foldable AC Pin		
Certificate	CB PDEKRA & © C		CB ≥DEKRA EH[C€	CB _c Us © IS		

■ AC Plugs Accessory (Sold Seperately)

MW's order NO.	Per Unit	Per Bag	Per Carton		
WW Solder NO.	r ei Ollit	Q'Ty	Q'Ty	G.W.	
AC PLUG-EU4	4	30 pcs	300 pcs (10 bags)	5.6Kg	
AC PLUG-US4	&	30 pcs	300 pcs (10 bags)	5.3Kg	
AC PLUG-UK4	***	30 pcs	300 pcs (10 bags)	7.1Kg	
AC PLUG-AU4	•	30 pcs	300 pcs (10 bags)	5.3Kg	
AC PLUG-CN4		30 pcs	300 pcs (10 bags)	5.3Kg	
AC PLUG-MIX4	(Per Set)	30 pcs (5 Types*6 mixed bags)	300 pcs (5 Types*6 mixed bags) (10 bags)	5.78Kg	



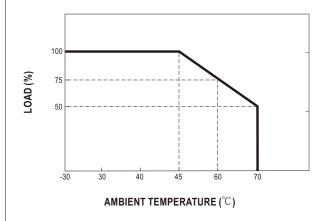
■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

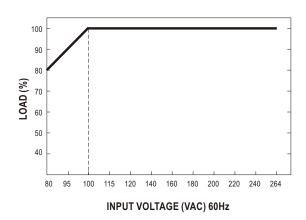
Note:

- 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).

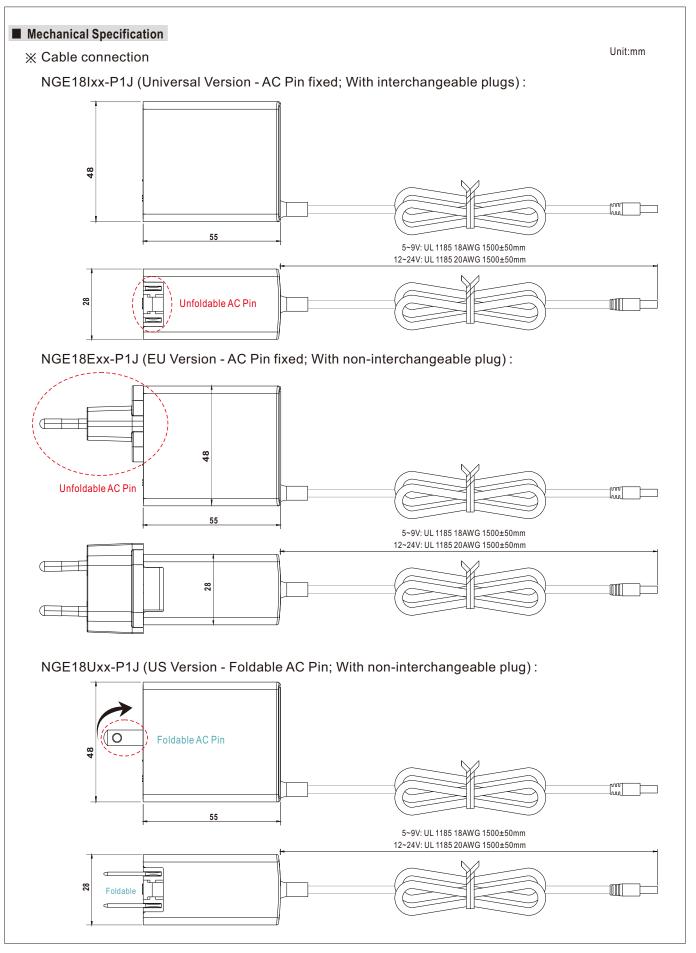
■ Derating Curve



■ Static Characteristics





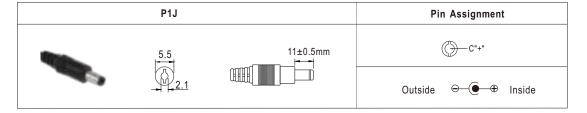




■ DC Output Plug

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.	А	В	С	Quick Adapter
			турстчо.	OD	ID	L	Accessory
		(Straight)	P1I	5.5	2.1	9.5	Aveilable
	₁₋ A ₋₁		P1L	5.5	2.5	9.5	
Green .			P1M	5.5	2.5	11.0	
The same of		C	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	
	A B	(Straight) (Right-angled)	P2I	5.5	2.1	9.5	
			P2J	5.5	2.1	11.0	
			P2L	5.5	2.5	9.5	None
Town or the second			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	
			P2MR	5.5	2.5	11.0	
Lock Style			Type No.	Α	В	С	
			Type No.	OD	ID	L	
_	A	Floating Locking - C-	P2S(S761K)	5.53	2.03	12.06	None
Till to			P2K(761K)	5.53	2.54	12.06	None
8 6		₽ _B	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. 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	(Garrent raung Griman)	
Center Pin Style	Type No.	А	В	С	D		
Genter Fin Style		OD	ID	L	Center Pin		
	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		
·	Tuno No	Pin Assignment					
Min. DIN 3 Pin with Lock (male)	Type No.	PIN No).	Outp	ut		
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
(°°) ₃ 2		2		-Vo			
KYCON KPPX-3P equivalent		3		+Vc)		
	T NI -	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No	. Output		ıt	Available (Current rating: 7.5A max.)	
	R7B	1		+Vo			
2 3		2		-Vo -Vo			
1 4 KYCON KPPX-4P equivalent		3					
		· .	4 +Vo				
Stripped and tinned leads	Type No.	Pin Assignment			4		
оттрров вид виде в в в в в в в в в в в в в в в в в в в	71.	PIN No).	Output		None	
	by customer	1 (Ribbed)	+Vo			
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