









(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
- 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 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 O9-P1J	NGE18 () 12-P1J	NGE18 () 15-P1J	NGE18 () 18-P1J	NGE18 ○ 24-P1				
	DO VOLTA OF		○ = I, U, E	0)/	40)/	45)/	401/	04)/			
	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			
DUTPUT	RATED POWER		15W	18W	18W	18W	18W	18W			
701101	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%			
	SETUP, RISE, HOLD UP TIME		1500ms 30ms 30ms		ms, 30ms, 10ms / 115\						
				3 ~ 370VDC	,,,	7710 011011000					
	FREQUENCY		47 ~ 63Hz								
			82%	87.5%	87%	87%	88%	88%			
NPUT	EFFICIENCY (Typ.)				0170	0170	00%	0070			
	AC CURRENT			25A / 230VAC							
	INRUSH CURI	RENT (max.)	COLD START 40A / 115VAC 80A / 230VAC								
	LEAKAGE CU	IRRENT (max.)	Touch current < 100uA (rms) @264VAC								
	OVERLOAD		110% ~ 150% rated								
ROTECTION	OVERLOAD		Protection type: Hid	cup mode, recovers a	automatically after fa	ult condition is remove	ed				
KOILCHON	OVER VOLTA	CE	115% ~ 140% rated	output voltage							
	OVER VOLTA	GE	Protection type : Cla	ımp by zener diode							
	WORKING TE	MP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING TEMP. WORKING HUMIDITY		20% ~ 90% RH non-c								
ENVIRONMENT		MP., HUMIDITY		% RH non-condensing	1						
INVIKUNMENT					J						
	TEMP. COEFF	ICIENI	±0.03% / °C (0 ~ 45°C	,							
	VIBRATION		· · · · · · · · · · · · · · · · · · ·		0min. each along X, Y, IEC61558-1/-2-16, II						
	SAFETY STANDARDS		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.								
	MUTHOTAND	/OLTA OF	(Please refer to next page for more details) I/P-O/P:4000VAC								
	WITHSTAND \		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	ISOLATION R	ESISTANCE			KH		Test Level / Note				
	EMC EMISSION		Parameter Conducted emission	CNS15936,	5032(CISPR32)/EN550 GB/T 9254.1-2021, KC 5032(CISPR32)/EN550	Class B					
			Radiated emission		GB/T 9254.1-2021, KC		Class B				
			Harmonic current	BS EN/EN61	000-3-2		Class A				
SAFETY &			Parameter	Standard			Test Level /Note				
EMC			ESD	BS EN/EN610	61000-4-2		Level 3, 15KV air; Level 2, 8KV contact				
Note. 8)			RF field susceptibility	BS EN/EN610	000-4-3		Level 2, 3V/m				
			EFT bursts	BS EN/EN610	000-4-4		Level 3, 2KV				
	EMC IMMUNIT	Υ	Surge susceptibility	BS EN/EN61			Level 3, 1KV/L-N				
			Conducted susceptibilit				Level 2, 3V				
			Magnetic field immunity				,				
			wagnetic held illilliding	DO EIN/EINO II	BS EN/EN61000-4-8 Level 1, 1A/m						
			Voltage dips , interrupti	on BS EN/EN61	000-4-11		>95% dip 0. 5 periods, 30% dip 25 period >95% interruptions 250 periods				
	MTDF		1272 0 1/hra 1	MIL UDBY 247E /25°C	7100 4 1/4	min Tolografia TD/C		<u>'</u>			
	MTBF		1272.8 Khrs min. MIL-HDBK-217F (25°C) 7192.4 Khrs min. Telcordia TR/SR-332(Bellcore) (25°C)								
OTHERS	DIMENSION	MAIN BODY	48*28*55mm (L*W*H)								
	PACKING	MAIN BODY	<u> </u>	1 1.02CUF I TOT NGE1	oixx/UXX-PTJ 12	21g; 12pcs/ 11.2Kg / 1.	SOCUE I TOT NGE 18EX	x-PIJ			
		AC PLUGS	Refer to Page 3								
ONNECTOR			See page 6~7; Other type available by customer requested								
JOTE	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 availabl 9.Design mee	e on https://www. t US DoE Level \	meanwell.com//Uploa /II (from Docket num	ad/PDF/EMI_stateme ber EERE-2020-BT-S	nt_en.pdf) STD-0006).	com/serviceDisclaime					



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

	NGE18Ixx-P1J (Universal Version)							NGE18Exx-P1J NGE18Uxx-P13 (EU Version) (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							Unfoldable AC Pin	Foldable AC Pin			
								CB DEKRA			
Certificate	_						EHIC€	est us FC			

■ AC Plugs Accessory (Sold Seperately)

	2	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	&	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	



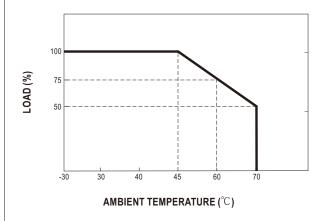
■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

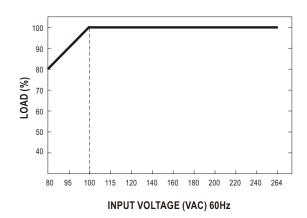
Note:

- 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).

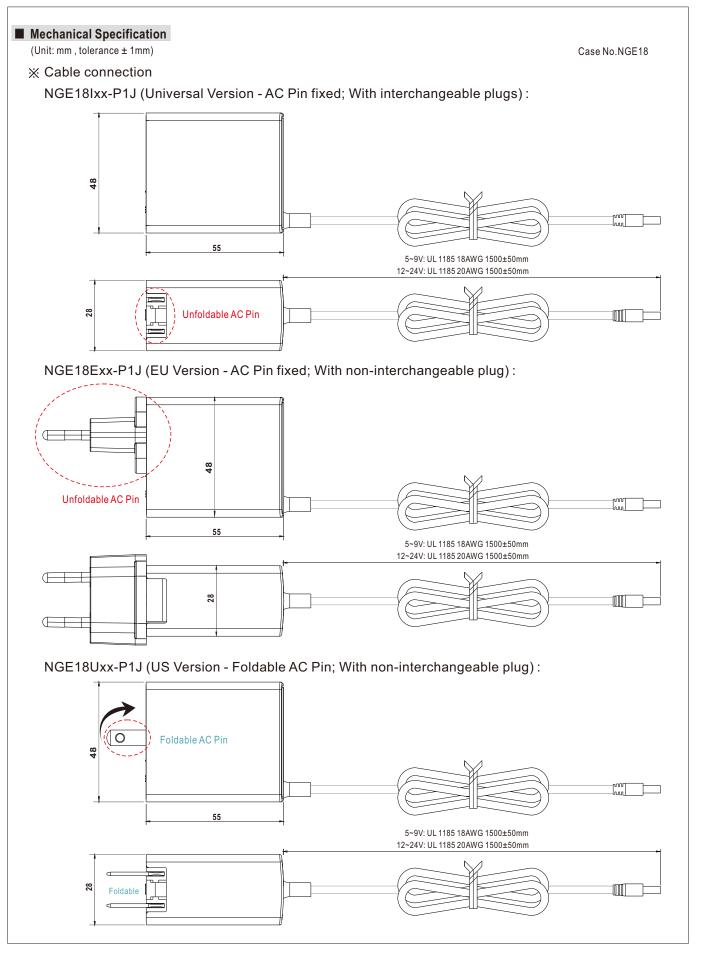
■ Derating Curve



■ Static Characteristics





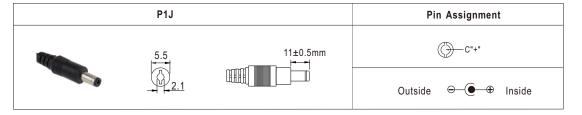




■ DC Output Plug

O Standard plug: P1J

Unit:mm



- 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)

7	Tuning For	k Style	Type No.	Α	В	С	Quick Adapter		
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OD	ID	L	Accessory				
		_ C - 	P1I	5.5	2.1	9.5			
			P1L	5.5	2.5	9.5			
Welling	_A_	(Straight)	P1M	5.5	2.5	11.0	Available		
		_ C	P1IR	5.5	2.1	9.5			
	- ∏-₽		P1JR	5.5	2.1	11.0	(Current rating: 7.5A max.)		
		(Dialet acceled)	P1LR	5.5	2.5	9.5			
		(Right-angled)	P1MR	5.5	2.5	11.0			
	Type No.	Α	В	С					
Barrel Style			Type No.	OD	ID	L			
		(Straight)	P2I	5.5	2.1	9.5			
			P2J	5.5	2.1	11.0			
	A B		P2L	5.5	2.5	9.5	None		
The second			P2M	5.5	2.5	11.0	None		
		\bigcirc _B	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 B	P2S(S761K)	5.53	2.03	12.06	None		
	O _B		P2K(761K)	5.53	2.54	12.06	INUITE		
			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	(ourrent aung or man)	
Center Pin Style	Type No.	А	В	С	D		
Center Fin Style	туре но.	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)	Typo No	Р	in Assi	ssignment			
wiii. Din 3 Pili with Lock (male)	Type No.	PIN No).	Outp	ut		
	R6B	1		+Vo		Available (Current rating: 7.5A max.)	
(°°) ₁ 2		2		-Vo			
KYCON KPPX-3P equivalent		3		+Vo)		
	T N	Pin Assignment					
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No	No. Output		ıt	Available (Current rating: 7.5A max.)	
	R7B	1		+Vo			
2 3 IIIII A		2		-Vo			
KYCON KPPX-4P equivalent		3		-Vo			
TOOM TALL OF THE OWNER.				+\/(
Stripped and tinned leads	Type No.	Pin Assignmen				None	
Chipped and mined leads	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PIN No).	Output			
1	by customer	1 (Ribbed	1)	+Vo -Vo			
L1 Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	by oddiomor	2 (Letter)				

■ Installation Manual

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