

65W AC-DC Reliable Wall-mounted Interchangeable Type Green Adaptor NGE65 series









(NGE65I)

(NGE65E)

(NGE65U)







CB PDEKRA FCCE CHA W Energy Verified W IP21





























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
- · 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

NGE65 is a highly reliable, 65W 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.NGE65 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 92% and the extremely low no-load power consumption below 0.075W, NGE65 is compliant with the latest USA energy regulation EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, Korea KMEPS, EU ErP and CoC version 5. 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



65W AC-DC Reliable Wall-mounted Interchangeable Type Green Adaptor NGE65 series

						1				
SPECIFICATION			NGE65○09	9-P1J NGE65○12-P1J	NGE65○15-P1J	NGE65○18-P1	J∣ NGE65⊜24-P1J	NGE65○48-P1J		
SFLOII ICATION		O = I, U, E								
OUTPUT										
DC VOLTAGE	Note.2	5V	9V	12V	15V	18V	24V	48V		
RATED CURRENT		6A	5.96A	4.88A	4.34A	3.62A	2.71A	1.36A		
CURRENT RANGE		0 ~ 6A	0 ~ 5.96A	0 ~ 4.88A	0 ~ 4.34A	0 ~ 3.62A	0 ~ 2.71A	0 ~ 1.36A		
		30W								
RATED POWER			53.6W	58.5W	65.1W	65.1W	65W	65.2W		
RIPPLE & NOISE (max.)	Note.3	100mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p		
VOLTAGE TOLERANCE	Note.4	±6.0%	±5.0%	±3.0%	±3.0%	±3.0%	±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	±6.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%		
SETUP, RISE, HOLD UP TI	ИΕ	1500ms, 50ms, 30	ms / 230VAC	3000ms, 50ms, 10	ms / 115VAC at fu	ll load				
INPUT										
VOLTAGE RANGE	Note.7	80 ~ 264VAC	113 ~ 370VD	C						
FREQUENCY RANGE		47 ~ 63Hz								
EFFICIENCY (Typ.)		84%	89%	90%	90%	91%	92%	92%		
AC CURRENT		1.5A / 115VAC	0.8A / 230VA	С						
INRUSH CURRENT (max.)		COLD START 50A / 115VAC 100A / 230VAC								
LEAKAGE CURRENT (max	()	Touch current < 100uA (rms) @264VAC								
PROTECTION (Max	,	TOUCH CUITETI V TO	oun (IIIIs) (@20	J+V/10						
PROTECTION		1100/1500/ rote	d autaut nau							
OVERLOAD		110% ~ 150% rated output power								
OVERLOAD		Protection type: 5~24V Hiccup mode, recovers automatically after fault condition is removed. 48V Shut down and latch off o/p voltage, re-power on to recover.								
		110% ~ 140% rate			o power on to reco	¥01.				
OVER VOLTAGE										
		Protection type : 0	Jiamp by zen	ier diode						
ENVIRONMENT		T								
WORKING TEMP.		-30 ~ +70°C (Refe		· · · · · · · · · · · · · · · · · · ·						
WORKING HUMIDITY		20% ~ 90% RH non-condensing								
STORAGE TEMP., HUMIDIT	Υ	-20 ~ +85°C, 10 ~ 95% RH non-condensing								
TEMP. COEFFICIENT		±0.03% / °C (0 ~ 40°C)								
VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC	Note.8									
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/-1-11; ANSI/AAMI ES60601-1-1-11, 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 next page for more details)								
WITHSTAND VOLTAGE		I/P-O/P:4000VAC								
ISOLATION RESISTANCE		I/P-O/P:100M Ohr	ns / 500VDC /	/ 25°C / 70% RH						
		Parameter		Standard FACE PRODUCTION FOR PLANS			Level / Note			
EMC EMISSION		Conducted emission	ı c	BS EN/EN55032(CISPR32)/EN55011 , FCC Part15 , CNS15936, GB/T 9254.1-2021, KC C9832			Class B			
		Radiated emission	C	BS EN/EN55032(CISPR32)/EN55011 , FCC Part15 , CNS15936, GB/T 9254.1-2021, KC C9832			Class B			
		Harmonic current	Note.9 B	3S EN/EN61000-3-2		Clas	ss A			
		Parameter	S	Standard		Test	t Level /Note			
		ESD	В	3S EN/EN61000-4-2		Leve	el 4, 15KV air; Level 4,	,8KV contact		
		RF field susceptibil	ity B	3S EN/EN61000-4-3		Lev	Level 2, 3V/m			
		EFT bursts	В	3S EN/EN61000-4-4		Lev	Level 3, 2KV			
EMC IMMUNITY		Surge susceptibility	В	BS EN/EN61000-4-5			Level 3, 1KV/L-N			
		Conducted suscepti				Lev	Level 2, 3V			
		Magnetic field immu				evel 2, 3A/m				
		>95% din 0. 5 periods 30% din 25 period						0% din 25 periods		
		Voltage dips , interruption BS EN/EN61000-4-11 BS EN/EN61000-4-11								
OTHERS										
MTBF		682.2 Khrs min.	MIL-HDBK-2	217F (25°C) 5852	.4 Khrs min. Tel	cordia TR/SR-332	(Bellcore) (25°C)			
DIMENSION		62*30*65mm (L*W		. (== 0) 3302			,, (200)			
PACKING	MAIN BODY AC PLUGS	196g; 60pcs/ 13.4Kg / 0.94CUFT for NGE65lxx/Uxx-P1J 211g; 45pcs/ 11.4Kg / 1.06CUFT for NGE65Exx-P1J								
DC OUTDUT CONNECTOR	AUTEUGG	Refer to Page 3								
DC OUTPUT CONNECTOR		Soo no 20 6 7 : 0	thortune"	Johlo by custom	ntod					
PLUG		See page 6~7; Other type available by customer requested								
CABLE		See page 6~7; Other type available by customer requested								
NOTE										

- 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.

- 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.Test harmonic current at 85% load.
 10.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)

			NGE65I (Universa		n)			NGE65Exx-P1J (EU Version)	NGE65Uxx-P1J (US Version)
Order NO.		•							
	Interchangeable Type (Unfoldable; AC Pin fixed)						Non-Interchangeable Type		
AC plug	EU	US	UK	AU	CN	KR	IN		
Ao piug	4	&	Sp.	•	4			Unfoldable AC Pin	Foldable AC Pin
Certificate			KRA 🛕					CB DEKRA	

■ AC Plugs Accessory (Sold Seperately)

NAVA/! I NIO	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	&	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	



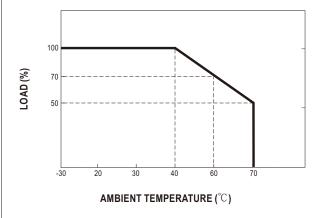
■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

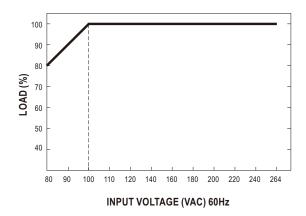
Note:

- 1. NGE65I main body unit and AC inlet plug should be ordered separately.
- 2. NGE65I needs to be used along with one of the AC inlet plug (EU,US,UK,AU,CN,KR,IN).

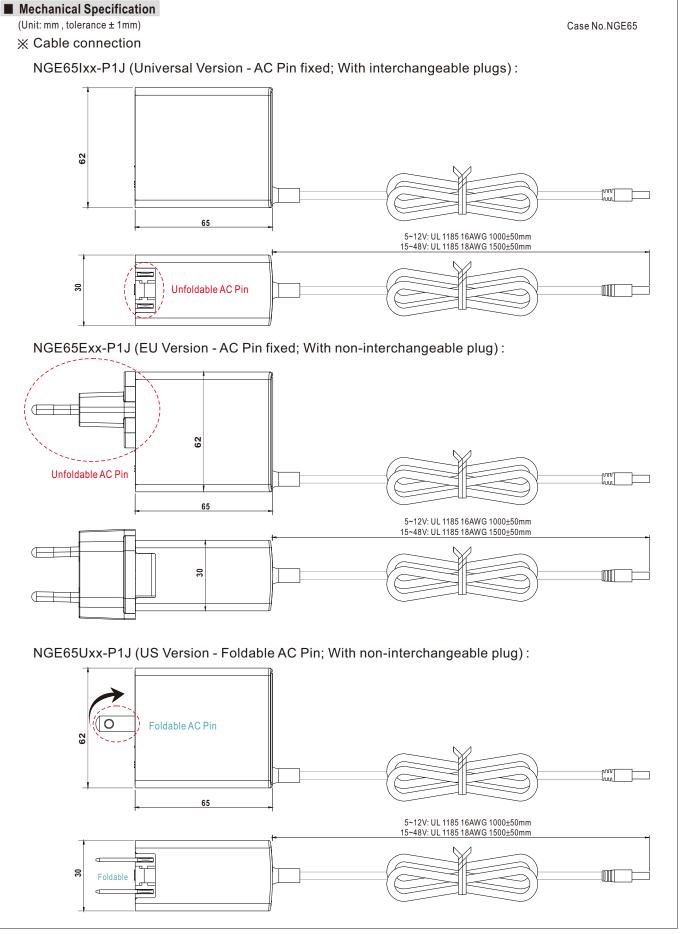
■ Derating Curve



■ Static Characteristics





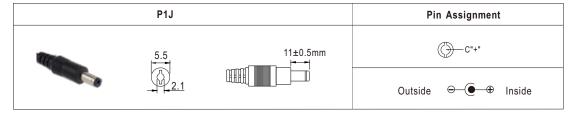




■ DC Output Plug

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 Access P1I 5.5 2.1 9.5 P1L 5.5 2.5 9.5	ory
P1L 5.5 2.5 9.5	
(Straight) P1M 5.5 2.5 11.0	_
(Straight) P1M 5.5 2.5 11.0 Available Current rating:	
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. A B C	
OD ID L	
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	
(Pight-angled) P2LR 5.5 2.5 9.5	
(Right-angled) P2MR 5.5 2.5 11.0	
Look Style Type No A B C	
Lock Style Type No. OD ID L	
P2S(S761K) 5.53 2.03 12.06	
P2K(761K) 5.53 2.54 12.06 P2C(S760K) 5.53 2.03 9.52	;
P2C(S760K) 5.53 2.03 9.52	
SWITCHCRAFT original or equivalent P2D(760K) 5.53 2.54 9.52	



	- W	А		В	С	Quick Adapter	
Min. Pin Style	Type No.	OD	_	ID	L	Accessory	
. A. C	P3A	2.35	.35 0.		11.0	Available	
	P3B	4.0		1.7	11.0	AVAIIADIE (Current rating: 5A max.)	
EIAJ equivalent	P3C	4.75		1.7 11.0			
Center Pin Style	Type No.	А	В	С	D		
Genter Fin Style		OD	ID	L	Center Pin		
A 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	Pin Assignme		gnment			
Willi. DIN 3 Pill Willi Lock (Illale)	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)	l	
	Type No.	Pin Assignment					
Min. DIN 4 Pin with Lock (male)		PIN No					
	R7B	1		+Vo		Available (Current rating: 7.5A max.)	
2 3		2		-Vo -Vo			
KYCON KPPX-4P equivalent		3					
		4 +Vc					
Stripped and tinned leads	Type No.	Pin Assignmer		•			
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PIN No).	Output		None	
1	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