



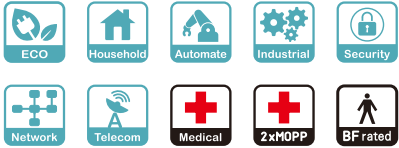
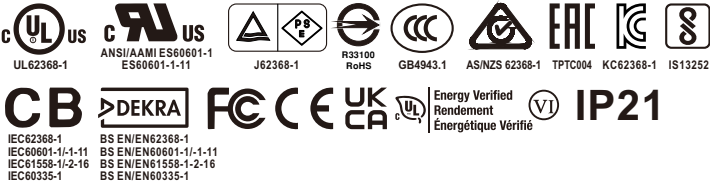
(NGE18I)



(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℃~+70℃ 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

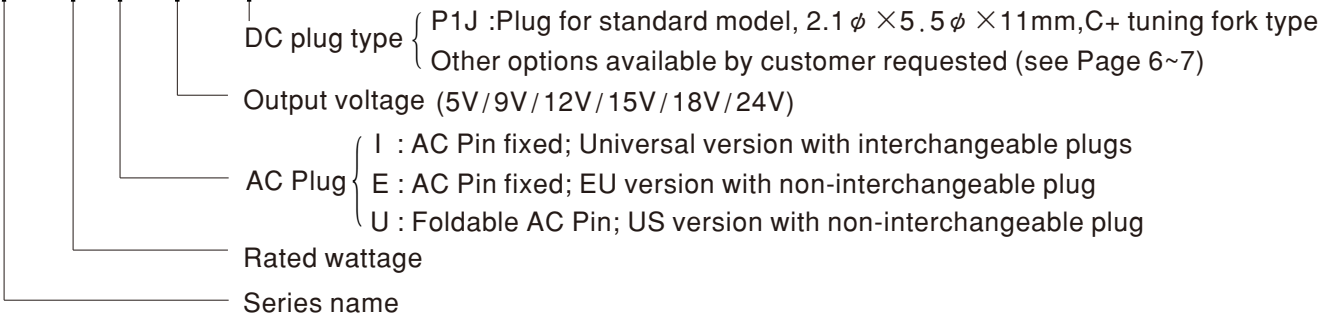
■ **Description**

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**

NGE 18 I 12 -P1J



■ **Applications**

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

■ **GTIN CODE**

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

SPECIFICATION		NGE18○05-P1J	NGE18○09-P1J	NGE18○12-P1J	NGE18○15-P1J	NGE18○18-P1J	NGE18○24-P1J
		○ = I, U, E					
OUTPUT							
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	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%
SETUP, RISE, HOLD UP TIME		1500ms, 30ms, 30ms / 230Vac 3000ms, 30ms, 10ms / 115Vac at full load					
INPUT							
VOLTAGE RANGE	Note.7	80 ~ 264Vac 113 ~ 370Vdc					
FREQUENCY RANGE		47 ~ 63Hz					
EFFICIENCY (Typ.)		82%	87.5%	87%	87%	88%	88%
AC CURRENT		0.4A / 115Vac 0.25A / 230Vac					
INRUSH CURRENT (max.)		COLD START 40A / 115Vac 80A / 230Vac					
LEAKAGE CURRENT (max.)		Touch current < 100uA (rms) @264Vac					
PROTECTION							
OVERLOAD		110% ~ 150% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
OVER VOLTAGE		115% ~ 140% rated output voltage					
		Protection type : Clamp by zener diode					
ENVIRONMENT							
WORKING TEMP.		-30 ~ +70℃ (Refer to "Derating Curve")					
WORKING HUMIDITY		20% ~ 90% RH non-condensing					
STORAGE TEMP., HUMIDITY		-20 ~ +85℃, 10 ~ 95% RH non-condensing					
TEMP. COEFFICIENT		±0.03% / °C (0 ~ 45℃)					
VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC		Note.8					
SAFETY STANDARDS	CB	IEC62368-1, IEC60601-1/-1-11, IEC61558-1/-2-16, IEC60335-1;					
	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 ES60601-1-11, 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 62368-1; 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 Ohms / 500VDC / 25℃ / 70% RH					
EMC EMISSION	Parameter	Standard				Test Level / Note	
	Conducted emission	BS EN/EN55032(CISPR32)/EN55011, FCC Part15, CNS15936, 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				Class B	
	Harmonic current	BS EN/EN61000-3-2				Class A	
EMC IMMUNITY	Parameter	Standard				Test Level /Note	
	ESD	BS EN/EN61000-4-2				Level 4, 15KV air; Level 4,8KV contact	
	RF field susceptibility	BS EN/EN61000-4-3				Level 2, 3V/m	
	EFT bursts	BS EN/EN61000-4-4				Level 3, 2KV	
	Surge susceptibility	BS EN/EN61000-4-5				Level 3, 1KV/L-N	
	Conducted susceptibility	BS EN/EN61000-4-6				Level 2, 3V	
	Magnetic field immunity	BS EN/EN61000-4-8				Level 4, 30A/m	
	Voltage dips, interruption	BS EN/EN61000-4-11				>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
OTHERS							
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)					
PACKING	MAIN BODY	112g; 96pcs/ 12.6Kg / 1.02CUFT for NGE18lxx/Uxx-P1J			127g; 72pcs/ 11.2Kg / 1.36CUFT for NGE18Exx-P1J		
	AC PLUGS	Refer to Page 3					

NOTE							
1.All parameters are specified at 230VAC input, rated load, 25℃ 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							



18W AC-DC Reliable Wall-mounted Interchangeable Type Green Adaptor **NGE18 series**

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

Order NO.	NGE18Ixx-P1J (Universal Version) 							NGE18Exx-P1J (EU Version) 	NGE18Uxx-P1J (US Version) 
AC plug	Interchangeable Type (Unfoldable; AC Pin fixed)							Non-Interchangeable Type	
	EU 	US 	UK 	AU 	CN 	KR 	IN 	Unfoldable AC Pin	Foldable AC Pin
Certificate									

■ AC Plugs Accessory (Sold Separately)

MW's order NO.	Per Unit	Per Bag	Per Carton	
		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



18W AC-DC Reliable Wall-mounted Interchangeable Type Green Adaptor **NGE18 series**

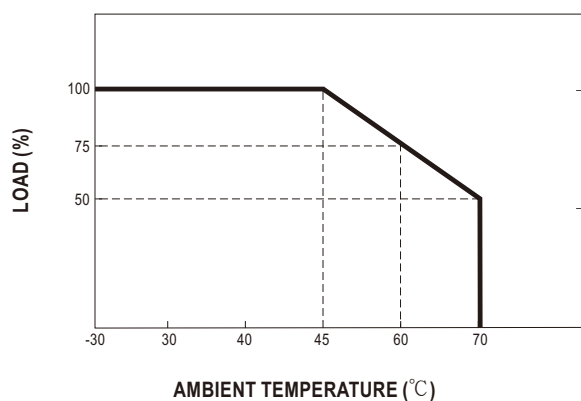
■ Interchangeable AC Plug Installation Steps (Convertible with I Type only)

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.

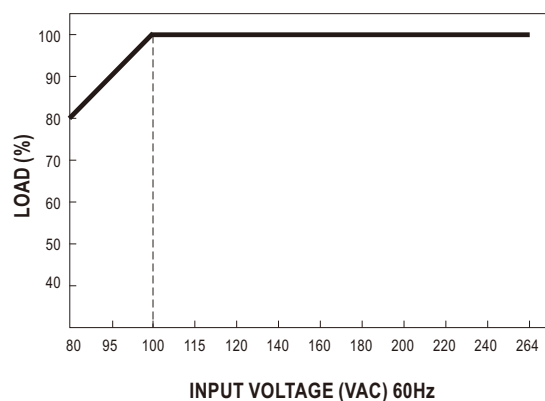
Note:

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





18W AC-DC Reliable Wall-mounted Interchangeable Type Green Adaptor **NGE18 series**

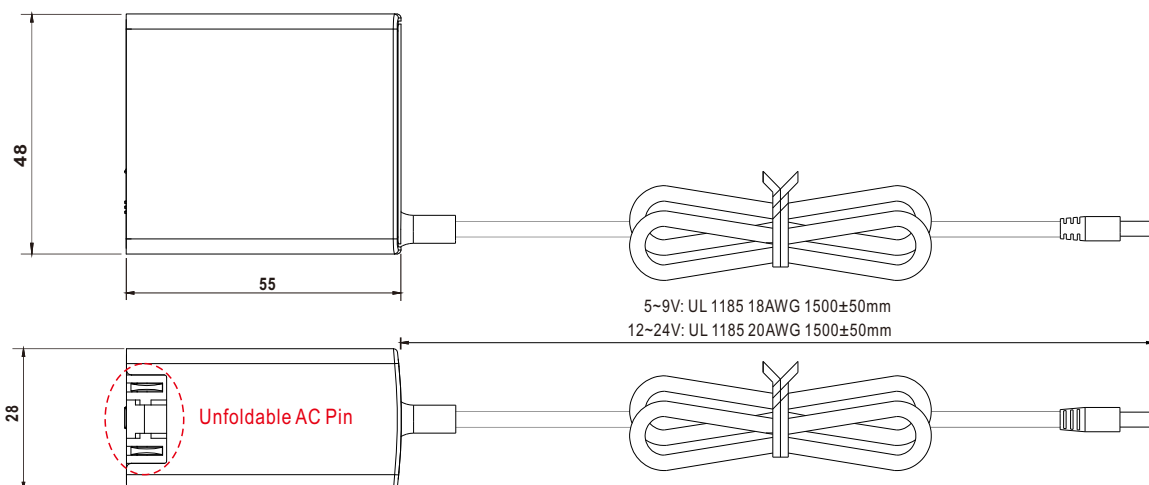
■ Mechanical Specification

(Unit: mm , tolerance ± 1 mm)

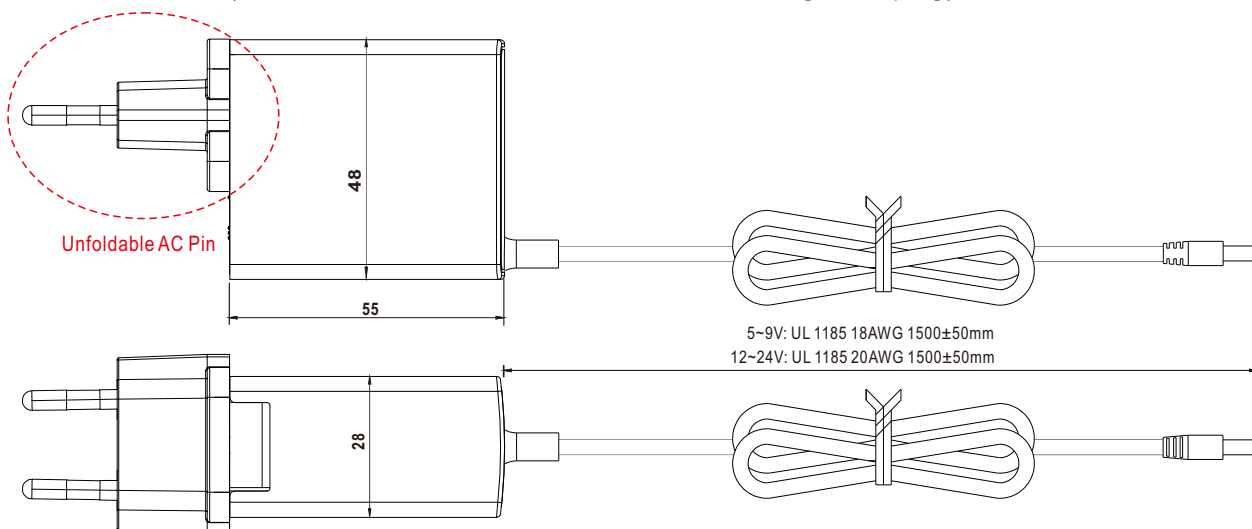
Case No.NGE18

※ Cable connection

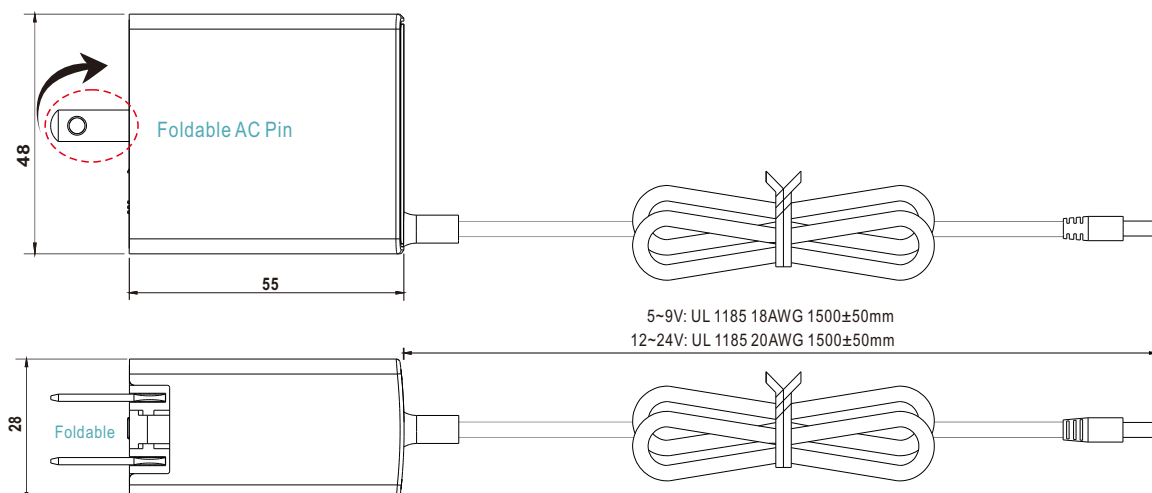
NGE18lxx-P1J (Universal Version - AC Pin fixed; With interchangeable plugs) :



NGE18Exx-P1J (EU Version - AC Pin fixed; With non-interchangeable plug) :



NGE18Uxx-P1J (US Version - Foldable AC Pin; With non-interchangeable plug) :



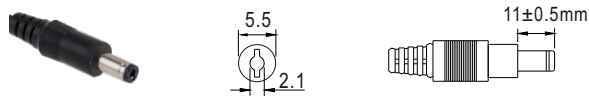


18W AC-DC Reliable Wall-mounted Interchangeable Type Green Adaptor **NGE18 series**

■ DC Output Plug

◎ Standard plug: P1J

Unit:mm

P1J	Pin Assignment
	
	Outside  Inside

◎ DC plug changeable through:

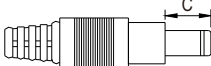
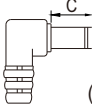
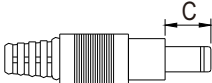
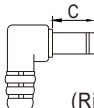
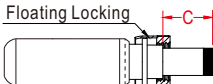
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide : https://www.meanwell.com/upload/pdf/DC_plug.pdf

Example quick adapter accessory:

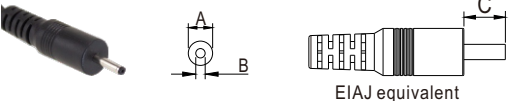
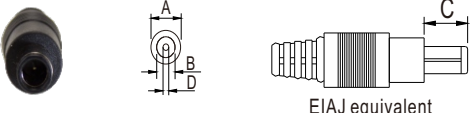
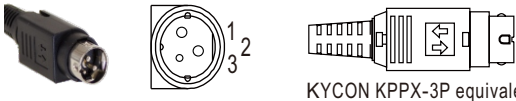
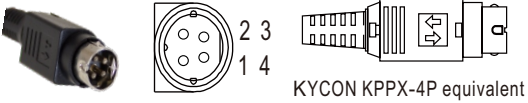
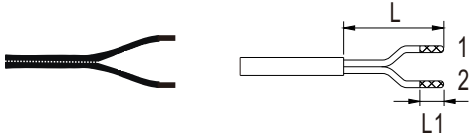


◎ Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style		Type No.	A OD	B ID	C L	Quick Adapter Accessory
 	 (Straight)	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
		P1L	5.5	2.5	9.5	
		P1M	5.5	2.5	11.0	
	 (Right-angled)	P1IR	5.5	2.1	9.5	
		P1JR	5.5	2.1	11.0	
		P1LR	5.5	2.5	9.5	
		P1MR	5.5	2.5	11.0	
Barrel Style		Type No.	A OD	B ID	C L	None
 	 (Straight)	P2I	5.5	2.1	9.5	
		P2J	5.5	2.1	11.0	
		P2L	5.5	2.5	9.5	
	 (Right-angled)	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.	A OD	B ID	C L	None
 	 Floating Locking SWITCHCRAFT original or equivalent	P2S(S761K)	5.53	2.03	12.06	
		P2K(761K)	5.53	2.54	12.06	
		P2C(S760K)	5.53	2.03	9.52	
		P2D(760K)	5.53	2.54	9.52	



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Min. Pin Style	Type No.	A	B	C	Quick Adapter Accessory	
		OD	ID	L		
 EIAJ equivalent	P3A	2.35	0.7	11.0	Available (Current rating: 5A max.)	
	P3B	4.0	1.7	11.0		
	P3C	4.75	1.7	11.0		
Center Pin Style	Type No.	A	B	C	D	
		OD	ID	L	Center Pin	
 EIAJ equivalent	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)
	P4B	6.5	4.4	11.0	1.4	
	P4C	7.4	5.1	11.0	0.6	
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment				
		PIN No.	Output			
 KYCON KPPX-3P equivalent	R6B	1	+Vo	Available (Current rating: 7.5A max.)		
		2	-Vo			
		3	+Vo			
Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment				
		PIN No.	Output			
 KYCON KPPX-4P equivalent	R7B	1	+Vo	Available (Current rating: 7.5A max.)		
		2	-Vo			
		3	-Vo			
		4	+Vo			
Stripped and tinned leads	Type No.	Pin Assignment				
		PIN No.	Output			
 Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>10</u> mm)	by customer	1 (Ribbed)	+Vo	None		
		2 (Letter)	-Vo			

■ Installation Manual

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