























Features

- Universal AC input / Full range
- · 3 pole AC inlet IEC320-C14, Class I power unit
- No load power consumption < 0.075W
- Energy efficiency Level ${
 m VI}$
- Comply with EISA 2007/DoE,EU ErP and meet CoC Version 5
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- · Pass LPS
- 2 years warranty

Applications

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

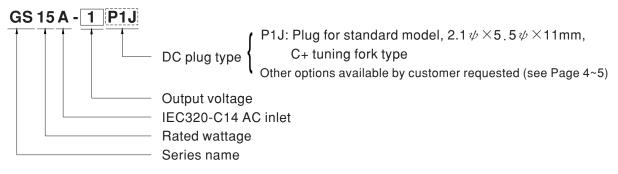
Description

GS15A is a highly reliable, 15W desktop style single-output green adaptor series. This product is a class ${
m I}$ power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 90VAC to 264VAC. The entire series supplies different models with output voltages ranging between 5VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 87% and the extremely low no-load power consumption below 0.075W, GS15A is compliant with USA EISA 2007/DoE, EU ErP, and meet Code of Conduct(CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode.

The entire series utilizes the 94V-0 flame retardant plastic case. GS15A is certified for the international safety regulations.

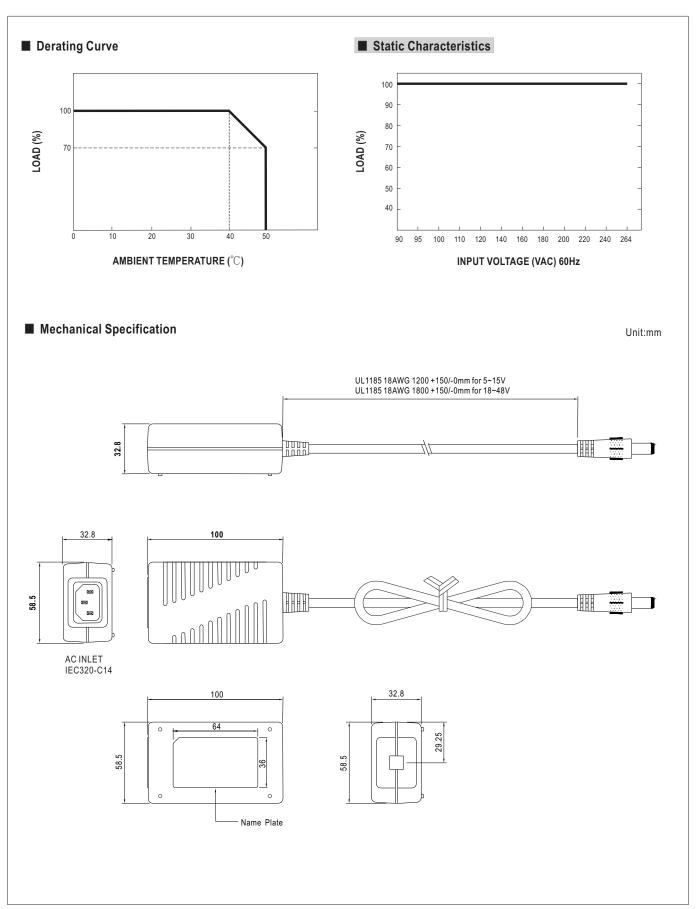
Model Encoding





SPECIFICATION

	5V 7 2.40A 1 0 ~ 2.40A	35 ~ 370VDC 32.5%	GS15A-2 9V 1.66A 0~1.66A 15W 80mVp-p ±5.0% ±0.5% ±5.0% d	GS15A-3 12V 1.25A 0 ~ 1.25A 15W 80mVp-p ±3.0% ±0.5% ±3.0%	GS15A-4 15V 1.00A 0 ~ 1.00A 15W 100mVp-p ±3.0% ±0.5% ±3.0%	GS15A-5 18V 0.83A 0 ~ 0.83A 15W 120mVp-p ±3.0% ±0.5% ±3.0%	GS15A-6 24V 0.625A 0 ~ 0.625A 15W 150mVp-p ±2.0% ±0.5% ±2.0%	GS15A-8 48V 0.31A 0 ~ 0.31A 15W 240mVp-p ±2.0% ±0.5% ±2.0%				
TED CURRENT IRRENT RANGE TED POWER PPLE & NOISE (max.) Note.3 PLTAGE TOLERANCE Note.4 NE REGULATION Note.5 NAD REGULATION NOTE.6 TUP, RISE, HOLD UP TIME PLTAGE RANGE EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) TERLOAD TER VOLTAGE DRKING TEMP.	2.40A 1 0 ~ 2.40A C 12W 1 50mVp-p 8 ±5.0% ± 5.0% ± 5.0% 3 3000ms, 50ms, 1 90 ~ 264VAC 1 47 ~ 63Hz 80% 8 0.5A/100VAC Cold start 30A/11 0.25mA/240VAC 105 ~ 250% rate	1.60A 0 ~ 1.60A 12W 30mVp-p ±5.0% ±0.5% ±5.0% 6ms at full loa 35 ~ 370VDC	1.66A 0~1.66A 15W 80mVp-p ±5.0% ±0.5% d	1.25A 0 ~ 1.25A 15W 80mVp-p ±3.0% ±0.5% ±3.0%	1.00A 0~1.00A 15W 100mVp-p ±3.0% ±0.5%	0.83A 0 ~ 0.83A 15W 120mVp-p ±3.0% ±0.5%	0.625A 0 ~ 0.625A 15W 150mVp-p ±2.0% ±0.5%	0.31A 0~0.31A 15W 240mVp-p ±2.0% ±0.5%				
RRENT RANGE ITED POWER PPLE & NOISE (max.) Note.3 ILTAGE TOLERANCE Note.4 NE REGULATION Note.5 IAD REGULATION Note.6 TUP, RISE, HOLD UP TIME ILTAGE RANGE EQUENCY RANGE FICIENCY (Typ.) IC CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) IERLOAD IER VOLTAGE DRKING TEMP.	0 ~ 2.40A	0 ~ 1.60A 12W 80mVp-p ±5.0% ±0.5% ±5.0% 6ms at full loa 35 ~ 370VDC	0~1.66A 15W 80mVp-p ±5.0% ±0.5% ±5.0%	0 ~ 1.25A 15W 80mVp-p ±3.0% ±0.5% ±3.0%	0~1.00A 15W 100mVp-p ±3.0% ±0.5%	0 ~ 0.83A 15W 120mVp-p ±3.0% ±0.5%	0 ~ 0.625A 15W 150mVp-p ±2.0% ±0.5%	0 ~ 0.31A 15W 240mVp-p ±2.0% ±0.5%				
TED POWER PPLE & NOISE (max.) Note.3 PLTAGE TOLERANCE Note.4 NE REGULATION Note.5 NAD REGULATION Note.6 TUP, RISE, HOLD UP TIME PLTAGE RANGE EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) PERLOAD PER VOLTAGE DORKING TEMP.	12W 1 50mVp-p 8 ±5.0% ± 5.0% ± 0.5% ± 4.0.5% ± 4.0.5% ± 4.0.50% 3 000ms, 50ms, 1 90 ~ 264VAC 1 47 ~ 63Hz 80% 8 0.5A / 100VAC Cold start 30A/ 11 0.25mA / 240VAC 105 ~ 250% rate	12W 30mVp-p ±5.0% ±0.5% ±5.0% 6ms at full loa 35 ~ 370VDC	15W 80mVp-p ±5.0% ±0.5% ±5.0%	15W 80mVp-p ±3.0% ±0.5% ±3.0%	15W 100mVp-p ±3.0% ±0.5%	15W 120mVp-p ±3.0% ±0.5%	15W 150mVp-p ±2.0% ±0.5%	15W 240mVp-p ±2.0% ±0.5%				
PPLE & NOISE (max.) Note.3 PLTAGE TOLERANCE Note.4 PLE REGULATION Note.5 PLE REGULATION Note.6 PLE REGULATION	50mVp-p	30mVp-p ±5.0% ±0.5% ±5.0% 6ms at full loa 35 ~ 370VDC	80mVp-p ±5.0% ±0.5% ±5.0%	80mVp-p ±3.0% ±0.5% ±3.0%	100mVp-p ±3.0% ±0.5%	120mVp-p ±3.0% ±0.5%	150mVp-p ±2.0% ±0.5%	240mVp-p ±2.0% ±0.5%				
ALTAGE TOLERANCE Note.4 NE REGULATION Note.5 NAD REGULATION Note.6 TUP, RISE, HOLD UP TIME PLAGE RANGE EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) PERLOAD PER VOLTAGE ORKING TEMP.	±5.0% ± ±0.5% ± ±5.0% ± ±5.0% ± 3000ms, 50ms, 1 90 ~ 264VAC 1 47 ~ 63Hz 80% & 0.5A / 100VAC Cold start 30A/ 11 0.25mA / 240VAC 105 ~ 250% rate	±5.0% ±0.5% ±5.0% 6ms at full loa 35 ~ 370VDC	±5.0% ±0.5% ±5.0%	±3.0% ±0.5% ±3.0%	±3.0% ±0.5%	±3.0% ±0.5%	±2.0% ±0.5%	±2.0% ±0.5%				
ALTAGE TOLERANCE Note.4 NE REGULATION Note.5 NAD REGULATION Note.6 TUP, RISE, HOLD UP TIME PLAGE RANGE EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) PERLOAD PER VOLTAGE ORKING TEMP.	±5.0% ± ±0.5% ± ±5.0% ± ±5.0% ± 3000ms, 50ms, 1 90 ~ 264VAC 1 47 ~ 63Hz 80% & 0.5A / 100VAC Cold start 30A/ 11 0.25mA / 240VAC 105 ~ 250% rate	±5.0% ±0.5% ±5.0% 6ms at full loa 35 ~ 370VDC	±5.0% ±0.5% ±5.0%	±3.0% ±0.5% ±3.0%	±3.0% ±0.5%	±3.0% ±0.5%	±2.0% ±0.5%	±2.0% ±0.5%				
NE REGULATION Note.5 PAD REGULATION Note.6 TUP, RISE, HOLD UP TIME PLITAGE RANGE EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) PERLOAD FER VOLTAGE ORKING TEMP.	±0.5% ± ±5.0% ± 3000ms, 50ms, 1 90 ~ 264VAC 1 47 ~ 63Hz 80%	±0.5% ±5.0% 6ms at full loa 35 ~ 370VDC	±0.5% ±5.0%	±0.5% ±3.0%	±0.5%	±0.5%	±0.5%	±0.5%				
AD REGULATION Note.6 TUP, RISE, HOLD UP TIME PLAGE RANGE EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) FERLOAD FER VOLTAGE DRKING TEMP.	±5.0% ± 3000ms, 50ms, 1 90 ~ 264VAC 1 47 ~ 63Hz 80%	±5.0% 6ms at full loa 35 ~ 370VDC 32.5%	±5.0%	±3.0%								
TUP, RISE, HOLD UP TIME PLATAGE RANGE EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) PERLOAD ER VOLTAGE DIKKING TEMP.	3000ms, 50ms, 1 90 ~ 264VAC 1 47 ~ 63Hz 80% 8 0.5A / 100VAC Cold start 30A / 11 0.25mA / 240VAC 105 ~ 250% rate	6ms at full loa 35 ~ 370VDC 32.5%	d			=51070						
EQUENCY RANGE EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) ERLOAD FER VOLTAGE ORKING TEMP.	90 ~ 264VAC 1 47 ~ 63Hz 80% 8 0.5A / 100VAC Cold start 30A / 11 0.25mA / 240VAC 105 ~ 250% rate	35 ~ 370VDC 32.5%										
EQUENCY RANGE FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) FERLOAD FER VOLTAGE DRKING TEMP.	47 ~ 63Hz 80% E 0.5A / 100VAC Cold start 30A / 11 0.25mA / 240VAC 105 ~ 250% rate	32.5%	85%									
FICIENCY (Typ.) CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) FERLOAD FER VOLTAGE ORKING TEMP.	80% 8 0.5A / 100VAC Cold start 30A / 11 0.25mA / 240VAC 105 ~ 250% rate		85%									
CURRENT RUSH CURRENT (max.) AKAGE CURRENT(max.) PERLOAD PER VOLTAGE ORKING TEMP.	0.5A / 100VAC Cold start 30A/ 11 0.25mA / 240VAC 105 ~ 250% rate		0070	85%	85%	85%	85.5%	87%				
RUSH CURRENT (max.) AKAGE CURRENT(max.) ERLOAD ER VOLTAGE ORKING TEMP.	Cold start 30A/ 11 0.25mA / 240VAC 105 ~ 250% rate	15VAC 50A/		0070	0070	03.5 /6 07 /6						
AKAGE CURRENT(max.) ERLOAD ER VOLTAGE ORKING TEMP.	0.25mA / 240VAC 105 ~ 250% rate	IDVAC DUAT										
ERLOAD ER VOLTAGE DRKING TEMP.	105 ~ 250% rate	Cold start 30A/ 115VAC 50A / 230VAC										
ER VOLTAGE DRKING TEMP.												
ORKING TEMP.	Protection type.	105 ~ 250% rated output power										
ORKING TEMP.	Protection type: Hiccup mode, recovers automatically after fault condition is removed											
	>120% rated output voltage											
	Protection type: Clamp by zener diode											
ALL CALLES AND ALL CA	0 ~ +50°C (Refer to "Derating Curve")											
ORAGE TEMP., HUMIDITY	20% ~ 90% RH non-condensing -20 ~ +85°C, 10 ~ 95% RH non-condensing											
MP. COEFFICIENT	-		-condensing									
BRATION	±0.03% / °C (0 ~ 40°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes											
FETY STANDARDS	UL60950-1, CSA C22.2, TUV EN60950-1, EAC TP TC 004 approved											
THSTAND VOLTAGE												
	I/P-O/P:3KVAC , I/P-FG:1.5KVAC											
DLATION RESISTANCE		UUIVI OIIIIIS / 30		U /0 KH		T (1 1/N						
	Parameter Standard Test Level / Note											
	Conducted emission EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)				Class B							
AC EMISSION	Radiated emission EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)			Class B								
	Harmonic current EN61000-3-2			Class A								
	Voltage flicker FN61000-3-3											
					Test Level /Note							
-	<u> </u>											
	EFT bursts		EN61000-4-4			Level 2, 1KV						
MC IMMUNITY	Surge susceptibil	lity	EN61000-4	-5		Level 3, 1KV/	Έ					
	Conducted susce	ptibility	EN61000-4-6			Level 2, 3V						
	Magnetic field im	munity	,									
						>95% dip 0. 5 periods, 30% dip 25 periods,						
·DE						>95% interrup	ptions 250 period	is				
			(200)									
		, ,										
				er requested								
		• • • • • • • • • • • • • • • • • • • •	•									
		• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·									
.DC voltage: The output volt	tage set at point measure by plug terminal & 50% load.											
• •												
•												
Line regulation is measured	from low line to I	high line at rat	ed load.									
Load regulation is measured	ured from 0% to 100% rated load.											
The power supply is consider	ered as an indepe	endent unit, bu	ut the final equip	ment still need	to re-confirm that	the whole syste	em complies wit	h the				
EMC directives. For quidase	ce on how to perf	form these EM	IC tests, please	refer to "EMI te	eting of company	ent power suppli	ies "					
LIVIO UIIECLIVES. FUI GUIDANI					oung or compone							
MC BF ME CK UG All All Chicken	IMMUNITY ENSION KING B. I parameters are specified or control of the regulation is measured that regulatio	Radiated emission Radiated emission Harmonic curren Voltage flicker Parameter ESD RF field suscepti EFT bursts Surge susceptibli Conducted susce Magnetic field im Voltage dips , into 500Khrs min. M NSION 100*58.5*32.8m 190g; 90pcs / 18 See page 4~5; E See page 4~5; I parameters are specified at 230VAC input C voltage: The output voltage set at point repute a noise are measured at 20MHz by utility of the power supply is considered as an indep	Radiated emission Harmonic current Voltage flicker Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity Voltage dips , interruption 500Khrs min. MIL-HDBK-217F NSION 100*58.5*32.8mm (L*W*H) ING 190g ; 90pcs / 18Kg / CARTON See page 4~5 ; Other type ava LE See page 4~5 ; Other type ava	Radiated emission EN55032[CISPR3] Harmonic current EN61000-3 Voltage flicker EN61000-3 Voltage flicker EN61000-3 Parameter Standard ESD EN61000-4 RF field susceptibility EN61000-4 EFT bursts EN61000-4 Conducted susceptibility EN61000-4 Magnetic field immunity EN61000-4 Voltage dips , interruption EN61000-4 Voltage dips , interruption EN61000-4 TOOM TOOM TOOM TOOM TOOM TOOM TOOM TOOM	Radiated emission EN50032(CISPR32)FCC PART 15 / CISPR22 Harmonic current EN61000-3-2 Voltage flicker EN61000-3-3 Parameter Standard ESD EN61000-4-2 RF field susceptibility EN61000-4-3 EFT bursts EN61000-4-5 Conducted susceptibility EN61000-4-5 Conducted susceptibility EN61000-4-6 Magnetic field immunity EN61000-4-8 Voltage dips , interruption EN61000-4-11 S00Khrs min. MIL-HDBK-217F(25°C) NSION 100*58.5*32.8mm (L*W*H) CING 190g ; 90pcs / 18Kg / CARTON See page 4~5 ; Other type available by customer requested I parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. C voltage: The output voltage set at point measure by plug terminal & 50% load. pple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µ oberance: includes set up tolerance, line regulation, load regulation. The regulation is measured from low line to high line at rated load. The power supply is considered as an independent unit, but the final equipment still need. The power supply is considered as an independent unit, but the final equipment still need.	Radiated emission EN55032(CISPR32)FCC PART 15 / CISPR22, CAN ICES-3 B) INMB-3 B) Harmonic current EN61000-3-2 Voltage flicker EN61000-3-3 Parameter Standard ESD EN61000-4-2 RF field susceptibility EN61000-4-3 EFT bursts EN61000-4-4 Surge susceptibility EN61000-4-5 Conducted susceptibility EN61000-4-5 Conducted susceptibility EN61000-4-6 Magnetic field immunity EN61000-4-11 SOURTH STANDARD STAND	Radiated emission	Radiated emission ENS002(SPR32)FCC PART 15 / CISPR22, CAN/CES-3(B)N/MB3/B) Class B Harmonic current EN61000-3-2 Class A Voltage flicker EN61000-3-2 Class A Parameter Standard Test Level /Note ESD EN61000-4-2 Level 3, 8KV air; Level 2, 4KV class EN61000-4-3 Level 2, 3V/m EFT bursts EN61000-4-3 Level 2, 3V/m EFT bursts EN61000-4-4 Level 2, 1KV Surge susceptibility EN61000-4-5 Level 3, 1KV/L-N 2KV/L,N-P Conducted susceptibility EN61000-4-6 Level 2, 3V Magnetic field immunity EN61000-4-8 Level 1, 1A/m Voltage dips , interruption EN61000-4-11 >95% dip 0. 5 periods, 30% di >95% interruptions 250 period 500Khrs min. MIL-HDBK-217F(25°C) NSION 100°58.5°32.8mm (L°W°H) Sing 190g : 90pcs / 18kg / CARTON See page 4-5 ; Other type available by customer requested I parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. C voltage: The output voltage set at point measure by plug terminal & 50% load. pple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. Dierance: includes set up tolerance, line regulation, load regulation. The regulation is measured from low line to high line at rated load. Parameters supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with 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 power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the substill need to re-confirm that the whole system complies with substill need to re-confirm that the whole system complies with substill need to re-confirm that the whole system complies with substill need to re-confirm that the whole system complies with substill need to re-confirm that the whole system complies with substill need to re-confirm that the whole system complies with substill need to re-confirm that the whole system complies with				





■ DC output plug

O Standard plug: P1J

Unit:mm

P1J		Pin Assignment
5.5	11±0.5mm	C"+" Outside ⊖ ⊕ Inside

Optional DC plug:

Tuning For	Type No.	А	В	С	
Tulling For	турстчо.	OD	ID	L	
		P1I	5.5	2.1	9.5
	(Straight)	P1L	5.5	2.5	9.5
A		P1M	5.5	2.5	11.0
A B	(Right-angled)	P1IR	5.5	2.1	9.5
→ ¥B		P1JR	5.5	2.1	11.0
		P1LR	5.5	2.5	9.5
		P1MR	5.5	2.5	11.0
Barrel	Type No.	Α	В	С	
Darrer	1,00110.	OD	ID	L	
	C	P2I	5.5	2.1	9.5
		P2J	5.5	2.1	11.0
Δ.		P2L	5.5	2.5	9.5
	(Straight)	P2M	5.5	2.5	11.0
A D B	C	P2IR	5.5	2.1	9.5
- 1		P2JR	5.5	2.1	11.0
	(5:14	P2LR	5.5	2.5	9.5
	(Right-angled)	P2MR	5.5	2.5	11.0
ا ماد د	Type No.	Α	В	С	
Lock S		OD	ID	L	
A Locking C		P2S(S761K)	5.53	2.03	12.06
		P2K(761K)	5.53	2.54	12.06
D _B	VITCHCRAFT original or equivalent	P2C(S760K)	5.53	2.03	9.52
SV	P2D(760K)	5.53	2.54	9.52	
Min. Pin S	Type No.	Α	В	С	
IVIIII. I III V		OD	ID	L	
<u>A</u>	EIAJ equivalent	P3A	2.35	0.7	11.0
A B		P3B	4.0	1.7	11.0
		P3C	4.75	1.7	11.0



Center Pin Style	Type No.	А	В	С	D	
Center Fin Style		OD	ID	L	Center Pin	
<u>A</u>	P4A	5.5	3.4	11.0	1.0	
	P4B	6.5	4.4	11.0	1.4	
EIAJ equivalent	P4C	7.4	5.1	11.0	0.6	
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment				
Will. DIN 3 FIII WILLI LOCK (IIIale)		PIN No	o.	Output		
	R6B	1		+Vo		
		2		-Vo		
KYCON KPPX-3P equivalent		3		+Vo		
Min DIN (Din with Look (male)	Type No.	Pin Assignment				
Min. DIN 4 Pin with Lock (male)		PIN No	o.	Output		
	R7B	1		+Vo		
		2		-Vo		
KYCON KPPX-4P equivalent		3		-Vo		
TO STATE OF THE SQUITE OF THE		4	+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment				
(**************************************	•	PIN No). 	Outpu		
		1		+Vo		
	R7BF	3		-Vo		
KYCON KPJX-CM-4S equivalent		4		-Vo +Vo		
			Pin Assi	n Assignment		
Stripped and tinned leads	Type No.	PIN No			ıt	
1 xxx 2	by customer	1 (White		+Vo		
L1 Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 10 mm)		2 (Black	()	-Vo		

■ Installation Manual

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