

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- 2 pole AC inlet IEC320-C8, Class II power unit
- Medical safety approved (2 x MOPP) accreding to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- Extremely low leakage current
- No load power consumption<0.1W
- Energy efficiency level VI and meet CoC Version 5 (Except 5~9V for Level V)
- Comply with Korea K-MEPS(only GSM40B48-P1J)
- -30~+70°C wide range working temperature
- Protections: Short circuit / Overload / Over voltage
- LED indicator for power on
- · Lifetime > 90 K hours
- 3 years warranty

Applications

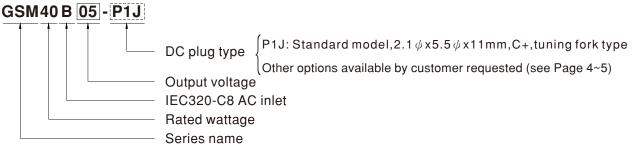
- · Mobile clinical workstation
- · Oral irrigator
- · Portable hemodialysis machine
- · Breath Machine
- Medical computer monitor

Description

GSM40B is a highly reliable, 40W desktop style single-output green medical adaptor series. This product is equipped with a 2-pin (no FG) standard IEC320-C8 power plug, adopting the input range from 80VAC to 264VAC. The entire series supplies different output voltages between 5VDC and 48VDC that can satisfy the demands for various kinds of medical electrical devices. The circuitry design meets the international medical standards (2*MOPP), having an ultra low leakage current ($<50\mu$ A), fitting the medical devices in direct electrical contact with the patients.

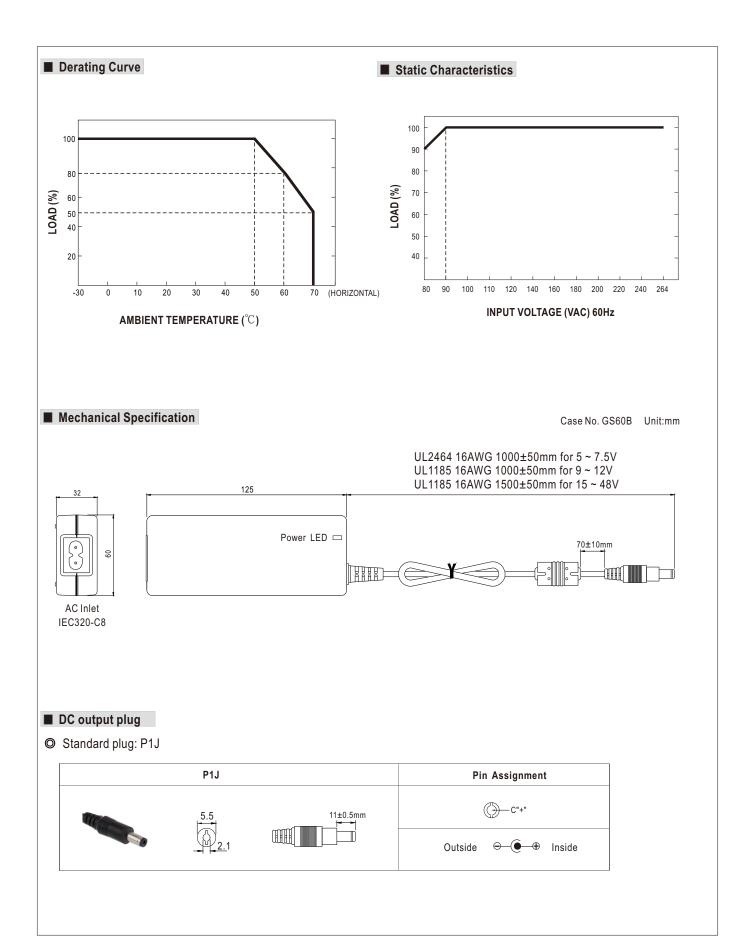
With the efficiency up to 91% and the extremely low no-load power consumption below 0.1W, GSM40B is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, EU ErP, and meet Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case, providing the double insulation that effectively prevents electrical shock. GSM40B is approved with the international medical safety certificates.

Model Encoding



SPECIFICATION

OAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.)	5V 5A 0~5A 25W 80mVp-p ±5.0% ±1.0% ±5.0% 1000ms, 30ms / 350ms / 230VAC 80~264VAC 47~63Hz	24ms / 115	VAC at full load		GSM40B15 15V 2.67A 0 ~ 2.67A 40W 100mVp-p ±3.0% ±1.0% ±3.0% d	GSM40B18 18V 2.22A 0~2.22A 40W 120mVp-p ±3.0% ±1.0% ±3.0%	GSM40B24 24V 1.67A 0~1.67A 40W 150mVp-p ±2.5% ±1.0% ±2.5%	GSM40B48 48V 0.84A 0~0.84A 40W 150mVp-p ±2.5% ±1.0% ±2.5%					
RATED CURRENT CURRENT RANGE RATED POWER (max.) RIPPLE & NOISE (max.) Note.3 POLTAGE TOLERANCE Note.4 LINE REGULATION RETUP, RISE TIME ROLD UP TIME (Typ.) POLTAGE RANGE REQUENCY RANGE REFICIENCY (Typ.) RC CURRENT (Typ.) NRUSH CURRENT (Typ.) REAKAGE CURRENT (max.)	5A 0~5A 25W 80mVp-p ±5.0% ±1.0% ±5.0% 1000ms, 30ms / 50ms / 230VAC 80~264VAC 47~63Hz 81% 1A/115VAC Cold start 30A/	5.34A 0 ~ 5.34A 40W 80mVp-p ±5.0% ±1.0% ±5.0% 230VAC 24ms / 115 113 ~ 370VDC	4.45A 0~4.45A 40W 100mVp-p ±5.0% ±1.0% ±5.0% 500ms, 30ms / 1 VAC at full load	3.34A 0~3.34A 40W 100mVp-p ±3.0% ±1.0% ±3.0% 15VAC at full loa	2.67A 0~2.67A 40W 100mVp-p ±3.0% ±1.0% ±3.0%	2.22A 0~2.22A 40W 120mVp-p ±3.0% ±1.0%	1.67A 0~1.67A 40W 150mVp-p ±2.5% ±1.0%	0.84A 0 ~ 0.84A 40W 150mVp-p ±2.5% ±1.0%					
CURRENT RANGE RATED POWER (max.) RIPPLE & NOISE (max.) Note.3 POLTAGE TOLERANCE Note.4 RINE REGULATION Note.5 ROAD REGULATION RETUP, RISE TIME Note.6 RIOLD UP TIME (Typ.) POLTAGE RANGE Note.7 REQUENCY RANGE REFICIENCY (Typ.) RC CURRENT (Typ.) RUSH CURRENT (Typ.) REAKAGE CURRENT (max.)	0~5A 25W 80mVp-p ±5.0% ±1.0% ±5.0% 1000ms, 30ms / 250ms / 230VAC 80~264VAC 47~63Hz 81% 1A/115VAC Cold start 30A/	0 ~ 5.34A 40W 80mVp-p ±5.0% ±1.0% ±5.0% 230VAC 19 24ms / 115 113 ~ 370VDC	0~4.45A 40W 100mVp-p ±5.0% ±1.0% ±5.0% 500ms, 30ms / 1 VAC at full load	0~3.34A 40W 100mVp-p ±3.0% ±1.0% ±3.0% 15VAC at full loa	0~2.67A 40W 100mVp-p ±3.0% ±1.0% ±3.0%	0~2.22A 40W 120mVp-p ±3.0% ±1.0%	0~1.67A 40W 150mVp-p ±2.5% ±1.0%	0~0.84A 40W 150mVp-p ±2.5% ±1.0%					
CURRENT RANGE RATED POWER (max.) RIPPLE & NOISE (max.) Note.3 POLTAGE TOLERANCE Note.4 RINE REGULATION Note.5 ROAD REGULATION RETUP, RISE TIME Note.6 RIOLD UP TIME (Typ.) POLTAGE RANGE Note.7 REQUENCY RANGE REFICIENCY (Typ.) RC CURRENT (Typ.) RUSH CURRENT (Typ.) REAKAGE CURRENT (max.)	0~5A 25W 80mVp-p ±5.0% ±1.0% ±5.0% 1000ms, 30ms / 250ms / 230VAC 80~264VAC 47~63Hz 81% 1A/115VAC Cold start 30A/	0 ~ 5.34A 40W 80mVp-p ±5.0% ±1.0% ±5.0% 230VAC 19 24ms / 115 113 ~ 370VDC	0~4.45A 40W 100mVp-p ±5.0% ±1.0% ±5.0% 500ms, 30ms / 1 VAC at full load	40W 100mVp-p ±3.0% ±1.0% ±3.0% 15VAC at full loa	0~2.67A 40W 100mVp-p ±3.0% ±1.0% ±3.0%	0~2.22A 40W 120mVp-p ±3.0% ±1.0%	0~1.67A 40W 150mVp-p ±2.5% ±1.0%	40W 150mVp-p ±2.5% ±1.0%					
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RIPPLE & NOISE (max.) Note.3 /OLTAGE TOLERANCE Note.4 INE REGULATION Note.5 OAD REGULATION SETUP, RISE TIME Note.6 IOLD UP TIME (Typ.) /OLTAGE RANGE Note.7 REQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) LEAKAGE CURRENT (max.)	80mVp-p ±5.0% ±1.0% ±5.0% 1000ms, 30ms / 2 50ms / 230VAC 80 ~ 264VAC 47 ~ 63Hz 81% 1A / 115VAC Cold start 30A /	80mVp-p ±5.0% ±1.0% ±5.0% 230VAC 19 24ms / 115 113 ~ 370VDC	100mVp-p ±5.0% ±1.0% ±5.0% 500ms, 30ms / 1	100mVp-p ±3.0% ±1.0% ±3.0% 15VAC at full loa	100mVp-p ±3.0% ±1.0% ±3.0%	120mVp-p ±3.0% ±1.0%	150mVp-p ±2.5% ±1.0%	150mVp-p ±2.5% ±1.0%					
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INE REGULATION Note.5 OAD REGULATION SETUP, RISE TIME Note.6 IOLD UP TIME (Typ.) OLTAGE RANGE Note.7 REQUENCY RANGE SEFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) LEAKAGE CURRENT (max.)	±1.0% ±5.0% 1000ms, 30ms / 30ms / 230VAC 80 ~ 264VAC 47 ~ 63Hz 81% 1A / 115VAC Cold start 30A /	±1.0% ±5.0% 230VAC 15 24ms / 115 113 ~ 370VDC	±1.0% ±5.0% 500ms, 30ms / 1 VAC at full load	\pm 1.0% \pm 3.0% 15VAC at full loa	±1.0% ±3.0%	±1.0%	±1.0%	±1.0%					
OAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) OCLTAGE RANGE Note.7 REQUENCY RANGE SEFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) LEAKAGE CURRENT(max.)	±5.0% 1000ms, 30ms / 350ms / 230VAC 80 ~ 264VAC 47 ~ 63Hz 81% 1A / 115VAC Cold start 30A /	±5.0% 230VAC 19 24ms / 115 113 ~ 370VDC 85.5%	±5.0% 500ms, 30ms / 1 VAC at full load	±3.0% 15VAC at full loa	±3.0%								
SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) YOLTAGE RANGE Note.7 REQUENCY RANGE FFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) LEAKAGE CURRENT(max.)	1000ms, 30ms / 250ms / 230VAC 80 ~ 264VAC 47 ~ 63Hz 81% 1A / 115VAC Cold start 30A /	230VAC 15 24ms / 115 113 ~ 370VDC 85.5%	500ms, 30ms / 1 VAC at full load	15VAC at full loa		⊥3.0%	1 2.5 /0	<u></u>					
OLD UP TIME (Typ.) OLTAGE RANGE REQUENCY RANGE FFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) LEAKAGE CURRENT(max.)	50ms / 230VAC 80 ~ 264VAC 47 ~ 63Hz 81% 1A / 115VAC Cold start 30A /	24ms / 115 113 ~ 370VDC 85.5%	VAC at full load		u								
OLTAGE RANGE Note.7 REQUENCY RANGE FFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT(max.)	80 ~ 264VAC 47 ~ 63Hz 81% 1A / 115VAC Cold start 30A /	113 ~ 370VDC 85.5%											
REQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT(max.)	47 ~ 63Hz 81% 1A / 115VAC Cold start 30A /	85.5%				50MS / 250VAC 24MS / 115VAC at tuli load 80 ~ 264VAC 113 ~ 370VDC							
EFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT(max.)	81% 1A / 115VAC Cold start 30A /												
AC CURRENT (Typ.) NRUSH CURRENT (Typ.) EAKAGE CURRENT(max.)	1A / 115VAC Cold start 30A /			88%	00.50/	000/	000/	040/					
NRUSH CURRENT (Typ.) EAKAGE CURRENT(max.)	Cold start 30A/	U DA / Z 3UVAU	86%	88%	88.5%	89%	90%	91%					
EAKAGE CURRENT(max.)													
, ,	louch current <		0A / 230VAC										
OVERLOAD													
	105 ~ 160% rated output power												
OTECTION	Protection type	<u> </u>		,									
VER VOLTAGE	, ,	7.8 ~ 10.2V	9.4 ~ 12.2V	12.6 ~ 16.2V	15.7 ~ 20.3V	18.9 ~ 24.3V	25.2 ~ 32.4V	50.4 ~ 64.8V					
			0 , 1	ver on to recover									
VORKING TEMP.			Curve")										
VORKING HUMIDITY													
TORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10	~ 95% RH non-	condensing										
EMP. COEFFICIENT	±0.03% /°C (0	±0.03% / °C (0~50°C)											
IBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes												
PERATING ALTITUDE Note.8	3000 meters												
SAFETY STANDARDS	IEC60601-1, EN60601-1/EN60601-1-11, ANSI/AAMI ES60601-1 / ES60601-1-11(3.1 version), PSE J60950-1, KC K60950-1, CAN/CSA-C22.2 No. 60601-1:14 - Edition 3, EAC TP TC 004 approved												
SOLATION LEVEL	Primary-Secondary: 2xMOPP												
VITHSTAND VOLTAGE	I/P-O/P:4KVAC												
SOLATION RESISTANCE	I/P-O/P:100M O	hms / 500VDC /	25°C/70% RH										
	Parameter Standard				Test Lev	Test Level / Note							
EMC EMISSION													
	Radiated emission EN55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B), MSIP KN32			R22, Class B	Class B								
	Harmonic current EN61000-3-2			Class A	Class A								
AFETY &		Voltage flicker EN61000-3-3											
	EN55024 , EN60601-1-2, EN61204-3												
	Parameter		Standar	rd		Test Lev	Test Level / Note						
	ESD		EN6100	EN61000-4-2		Level 4,	Level 4, 15KV air ; Level 4, 8KV contact						
	RF field suscept	tibility	EN6100	EN61000-4-3			Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz)						
	EFT bursts		EN6100	EN61000-4-4			,						
EMC IMMUNITY							,						
			EN61000-4-6			·							
		. ,					,						
		,		EN61000-4-11		100% dip	100% dip 1 periods, 30% dip 25 periods 100% interruptions 250 periods						
MTBF	740K hrs min M	III -HDRK-217E	(25°C)				, 200 po						
DIMENSION			(=0 °)										
ACKING	` '												
PLUG													
CABLE													
 DC voltage: The output volta Ripple & noise are measure Tolerance: includes set up to Line regulation is measured Length of set up time is mea Derating may be needed ur The ambient temperature de The power supply is conside EMC directives. For guidance 	at 230VAC inpu age set at point n d at 20MHz by u blerance, line reg from low line to assured at first col der low input vol erating of 3.5°C/1 ered as an indepi on how to perform the	t, rated load, 25 neasure by plugising a 12" twist julation, load rehigh line at rated start. Turning tages. Pleas choom with fanleendent unit, but	o°C 70% RH and the pair terminal & 50% ted pair terminal gulation. If the pair terminal doad. ON/OFF the pair the deratingless models and the the final equiprimals.	nbient. % load. ted with a 0.1μf or ower supply may g curve for more of 5°C/1000m went still need to	lead to increas details. vith fan models to re-confirm that	e of the set up to	tude higher than						
VV V T E III P S A S VI S A S S VI S A S S S S S S S S S S S S S S S S S	DRKING TEMP. DRKING HUMIDITY DORAGE TEMP., HUMIDITY EMP. COEFFICIENT BRATION PERATING ALTITUDE Note.8 INFETY STANDARDS DLATION LEVEL ITHSTAND VOLTAGE DLATION RESISTANCE MC EMISSION ITHSTAND VOLTAGE ALTION RESISTANCE ALTION RESISTANCE ALTION RESISTANCE ITHSTAND VOLTAGE DLATION RESISTANCE ITHSTAND VOLTAGE ITHSTAND VOLTAGE	Protection type 30 ~ +70 °C (Re ORKING HUMIDITY CORAGE TEMP., HUMIDITY EMP. COEFFICIENT EMP. COHURT CAN/CSA-C22.2 CAN/CSA-C22.2 COLATION LEVEL I/P-O/P:100M OR Parameter Conducted emissing Harmonic currer Voltage flicker EN55024 , EN60 Parameter ESD RF field susceptive Conducted susceptive EFT bursts Surge susceptive Conducted susceptive Conducted susceptive Conducted susceptive Conducted susceptive Conducted susceptive EFT bursts Surge susceptive Conducted susceptive Conducted susceptive Conducted susceptive Conducted susceptive Conducted susce	Protection type: Shut down o/p ORKING TEMP. -30 + +70°C (Refer to "Derating DRKING HUMIDITY 20% ~ 90% RH non-condensing ORAGE TEMP., HUMIDITY 40 ~ +85°C, 10 ~ 95% RH non- IMP. COEFFICIENT ±0.03% / °C (0 ~ 50°C) BRATION 10 ~ 500Hz, 2G 10min./1cycle, p PERATING ALTITUDE Note.8 OLATION LEVEL Primary-Secondary: 2xMOPP ITHSTAND VOLTAGE OLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN55024, EN60601-1-2, EN612 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Magnetic field immunity Voltage dip, interruption IEFF 740K hrs min. MIL-HDBK-217F MENSION 125*50*31.5mm (L*W*H) CKING 0.29Kg; 40pcs/12.6Kg/1.05CUF See page 4~5; Other type availated and personal point measure by plug Ripple & noise are measured at 20MHz by using a 12" twist Tolerance: includes set up tolerance, line regulation, load re Line regulation is measured from low line to high line at rate Length of set up time is measured at 11 molependent unit, but EMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, pleMC directives. For guidance on how to perform these EMC tests, plema the plema test place the plema test place the plema test pl	Protection type : Shut down o/p voltage, re-pov. DRKING TEMP30 ~ +70°C (Refer to "Derating Curve") DRKING HUMIDITY 20% ~ 90% RH non-condensing ### Protection	Protection type : Shut down of p voltage, re-power on to recover	Protection type : Shut down of p voltage, re-power on to recover	Protection type: Shut down of p voltage, re-power on to recover	Protection type: Shut down of yotiage, re-power on to recover					



Optional DC plug:

Tuning Fork Style		Type No.	А		В	С
Turning Turning		OD		ID	L	
		P1I	5.5		2.1	9.5
A B		P1L	5.5		2.5	9.5
	(Straight)	P1M	5.5		2.5	11.0
	- C -	P1IR	5.5		2.1	9.5
		P1JR	5.5		2.1	11.0
	(Bight angled)	P1LR	5.5		2.5	9.5
	(Right-angled)	P1MR	5.5		2.5	11.0
Barrel	Type No.	Α		В	С	
Darrer		OD		ID	L	
	С		5.5		2.1	9.5
		P2J	5.5		2.1	11.0
		P2L	5.5		2.5	9.5
A B	(Straight)	P2M	5.5		2.5 1	
	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
	Type No.	A B		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
		P2C(S760K)	5.53	_	2.03	9.52
SW	P2D(760K)	5.53		2.54	9.52	
Mir. Dir. C	, ,	Α		В	С	
Min. Pin S	otyle	Type No.	OD		ID	L
B B EIAJ equivalent		P3A	2.35		0.7	11.0
		P3B	4.0		1.7	11.0
		P3C	4.75		1.7	11.0
Center Pin Style		Type No.	Α	В	С	D
			OD	ID	L	Center Pin
-A		P4A	5.5	3.4	11.0	1.0
		P4B	6.5	4.4	11.0	1.4
- T- D	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6
Min DIN 2 Din with	Type No.	Pin Assignment				
Min. DIN 3 Pin with		PIN No).	Output		
		R6B	1		+Vo	
$\begin{pmatrix} \circ \\ \circ \end{pmatrix} $ $\begin{pmatrix} \circ \\ \circ \end{pmatrix}$ $\begin{pmatrix} 1 \\ 2 \end{pmatrix}$			2		-Vo	
3	KYCON KPPX-3P equivalent		3		+Vo	

M. BIMAB. W.L. L. (L.)	Type No	Pin Assignment		
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No.	Output	
Jane Jane		1	+Vo	
	R7B	2	-Vo	
14		3	-Vo	
KYCON KPPX-4P equivalent		4	+Vo	
Min DIN 4 Din with Look (female)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (female)		PIN No.	Output	
		1	+Vo	
2 3 Lunnin	R7BF	2	-Vo	
		3	-Vo	
KYCON KPJX-CM-4S equivalent		4	+Vo	
DIN 5 Pin (male)	Type No.	Pin Assignment		
Diliv 3 Fili (iliale)		PIN No.	Output	
	R1B	1	-Vo	
		2	-Vo	
		3	+Vo	
		4	-Vo	
		5	+Vo	
Stripped and tinned leads	Type No.	Pin Assignment		
Stripped and tillled leads	туре по.	PIN No.	Output	
L (red) 1 xxx 2	by customer	1	+Vo	
L1 (black) Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 5 mm)	by customer	2	-Vo	

■ Installation Manual

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