

























- · 2 pole AC inlet IEC320-C8, Class II power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1/-1-11, BS EN/EN60601-1/-1-11
- · 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)
- -25~+60°C wide range working temperature
- · Protections: Short circuit / Overload / Over voltage
- · LED indicator for power on
- 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

Applications

- · Blood glucose meter
- Blood pressure meter
- Nebulizer
- Inhaler
- Portable medical device

■ GTIN CODE

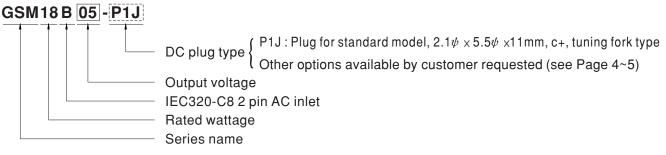
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

GSM18B is a highly reliable, 18W 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 miniature medical devices. The circuitry design meets the international medical standards ($2 \times \text{MOPP}$), having an ultra low leakage current ($<50\mu\text{A}$), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 88% and the extreme low no-load power consumption below 0.1W, GSM18B 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. GSM18B is approved with the international medical safety certificates.

■ Model Encoding



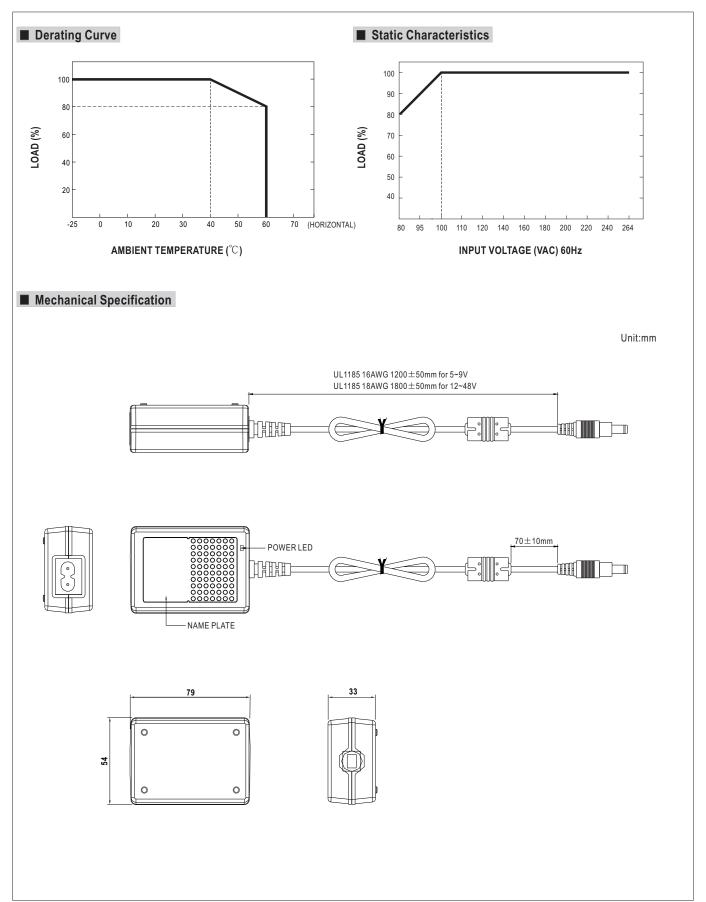
18W AC-DC Reliable Green Medical Adaptor

GSM18B series

| |). | GSM18B05-P1J | GSM18B07-P1J | GSM18B09-P1J | GSM18B12-P1J | GSM18B15-P1J | GSM18B18-P1J | GSM18B24-P1J | GSM18B48-P1 | |
|------------------------|------------------------------|--|--|---|---|--------------------|--|---|---|--|
| | SAFETY MODEL NO. | GSM18B05 | GSM18B07 | GSM18B09 | GSM18B12 | GSM18B15 | GSM18B18 | GSM18B24 | GSM18B48 | |
| | DC VOLTAGE Note.2 | | 7.5V | 9V | 12V | 15V | 18V | | 48V | |
| ОИТРИТ | RATED CURRENT | 3A | 2A | 2A | 1.5A | 1.2A | 1A | | 0.375A | |
| | CURRENT RANGE | 0 ~ 3A | 0 ~ 2A | 0 ~ 2A | 0 ~ 1.5A | 0 ~ 1.2A | | | 0 ~ 0.375A | |
| | RATED POWER (max.) | 15W | 15W | 18W | 18W | 18W | | | 18W | |
| | RIPPLE & NOISE (max.) Note.3 | - | 80mVp-p | 80mVp-p | 120mVp-p | 120mVp-p | | | 240mVp-p | |
| | , , | | | | | | | | ±2.0% | |
| | VOLTAGE TOLERANCE Note.4 | | ±5.0% | ±5.0% | ±3.0% | ±3.0% | | | | |
| | LINE REGULATION Note.5 | | ±1.0% | ±1.0% | ±1.0% | ±1.0% | | | ±1.0% | |
| | LOAD REGULATION | ±5.0% | ±5.0% | ±5.0% | | | | ±2.0% | ±2.0% | |
| | , | 500ms, 30ms / 230VAC 1000ms, 30ms / 115VAC at full load | | | | | | | | |
| | HOLD UP TIME (Typ.) | 16ms / 230VAC 16ms / 115VAC at full load 7 80 ~ 264VAC 113 ~ 370VDC | | | | | | | | |
| | | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | 222/ | 2.10/ | 050/ | 25.50/ | 000/ | 1.0=0/ | | |
| NPUT | EFFICIENCY (Typ.) | 80% | 83% | 84% | 85% | 85.5% | 86% | 87% | 88% | |
| | AC CURRENT (Typ.) | 0.5A / 115VAC | | | | | | | | |
| | INRUSH CURRENT (Typ.) | 55A / 230VAC 30A / 115VAC | | | | | | | | |
| | LEAKAGE CURRENT(max.) | Touch current < | · · | | | | | | | |
| | OVERLOAD | 105 ~ 170% rat | | | | | | | | |
| PROTECTION - | | | | | atically after fau | | | | | |
| | OVER VOLTAGE | 5.25 ~ 7.5V | 7.88 ~ 10.13V | 9.45 ~ 12.6V | 12.6 ~ 17.2V | 15.75 ~ 20.25V | 18.9 ~ 24.3V | 25.2 ~ 32.4V | 50.4 ~ 64.8V | |
| | OVER VOLINGE | Protection type | : Shut down o/p | voltage, re-pov | ver on to recover | • | 18V 24V 1A 0.75A 0 ~ 0.75A 18W 18W 18W 150mVp-p 180mVp-p ±3.0% ±2.0% ±1.0% ±1.0% ±3.0% ±2.0% ±2.0% 25.2 ~ 32.4V 25.2 ~ 32.4V | | | |
| | WORKING TEMP. | -25 ~ +60°C (Refer to "Derating Curve") | | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH | non-condensing | | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 | ~ 95% RH non-o | condensing | | | | | | |
| | TEMP. COEFFICIENT | ±0.03% /°C (| 0~40°C) | | | | | | | |
| | VIBRATION | | | | each along X, Y, | | | | | |
| | SAFETY STANDARDS | ANSI/AAMI ES60601-1 / ES60601-1-11(3.1 version), CAN/CSA-C22 3 rd Edition, TUV BS EN/EN60601-1 / BS EN/EN60601-1-11, EAC TP TC 004 approved | | | | | | | | |
| | ISOLATION LEVEL | Primary-Second | dary: 2xMOPP | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4KVAC | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M C | hms / 500VDC / | 25°C/70% RH | | | | | | |
| | EMC EMISSION | Parameter Standard | | | | Test Lev | Test Level / Note | | | |
| | | | | | BS EN/EN55011(CISPR11),FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B),MSIP KN32 | | | Class B | | |
| | | Padiated emission BS EN | | | N55011(CISPR11),F | FCC PART 15 / CISI | PR22, Class B | Class B | | |
| SAFETY & | | Harmania aurrant | | | | CID KNISS | | | | |
| | | Harmonia ourre | nt | | S-3(B)/NMB-3(B),M | SIP KN32 | Class A | | | |
| | | Harmonic curre | nt | BS EN/E | EN61000-3-2 | SIP KN32 | | | | |
| ЕМС | | Voltage flicker | | BS EN/E | | SIP KN32 | | | | |
| ЕМС | | Voltage flicker BS EN/EN6060 | ent 1-1-2, BS EN/EN | BS EN/E BS EN/E | EN61000-3-2 EN61000-3-3 | SIP KN32 | | val / Nata | | |
| ЕМС | | Voltage flicker BS EN/EN6060 Parameter | | BS EN/E BS EN/E 161204-3 Standar | N61000-3-2 N61000-3-3 | SIP KN32 | Test Lev | | | |
| ЕМС | | Voltage flicker BS EN/EN6060 | | BS EN/E BS EN/E 161204-3 Standar | EN61000-3-2 EN61000-3-3 | SIP KN32 | Test Level 4, | 15KV air ; Level 4 | | |
| ЕМС | | Voltage flicker BS EN/EN6060 Parameter | 1-1-2, BS EN/EN | BS EN/E BS EN/E BS EN/E BS EN/E | N61000-3-2 N61000-3-3 | SIP KN32 | Test Level 4, | 15KV air ; Level 4 10V/m(80MHz~2 | 2.7GHz) | |
| ЕМС | | Voltage flicker BS EN/EN6060 Parameter ESD | 1-1-2, BS EN/EN | BS EN/E BS EN/E 161204-3 Standar BS EN/E BS EN/E | N61000-3-2 EN61000-3-3 d EN61000-4-2 | SIP KN32 | Test Level 4, Level 3, Table 9, | 15KV air ; Level 4 10V/m(80MHz~2 9~28V/m(385MH | 2.7GHz) | |
| ЕМС | EMC IMMUNITY | Voltage flicker BS EN/EN6060 Parameter ESD RF field suscep | 1-1-2, BS EN/EN | BS EN/E BS EN/E BS EN/E BS EN/E BS EN/E BS EN/E | EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 | SIP KN32 | Test Level 4, Level 3, Table 9, Level 3, | 15KV air ; Level 4 10V/m(80MHz~2 9~28V/m(385MH 2KV | 2.7GHz) | |
| ЕМС | EMC IMMUNITY | Voltage flicker BS EN/EN6060 Parameter ESD RF field suscep EFT bursts | 1-1-2, BS EN/EN | BS EN/E | M61000-3-2 EN61000-3-3 d EN61000-4-2 EN61000-4-3 EN61000-4-4 | SIP KN32 | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, | 15KV air ; Level 4 10V/m(80MHz~2 9~28V/m(385MH 2KV 1KV/Line-Line | 2.7GHz) | |
| ЕМС | EMC IMMUNITY | Voltage flicker BS EN/EN6060 Parameter ESD RF field suscep EFT bursts Surge suscepti | 1-1-2, BS EN/EN otibility bility ceptibility | BS EN/E | M61000-3-2 EN61000-3-3 d EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 | SIP KN32 | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, Level 3, | 15KV air ; Level 4 10V/m(80MHz~2 9~28V/m(385MH 2KV 1KV/Line-Line 10V | 2.7GHz) | |
| ЕМС | EMC IMMUNITY | Voltage flicker BS EN/EN6060 Parameter ESD RF field suscep EFT bursts Surge suscepti Conducted sus | 1-1-2, BS EN/EN otibility bility ceptibility mmunity | BS EN/E | CN61000-3-2 CN61000-3-3 CM CN61000-4-2 CN61000-4-3 CN61000-4-4 CN61000-4-5 CN61000-4-6 | SIP KN32 | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, Level 4, | 15KV air ; Level ² 10V/m(80MHz~ ² 9~28V/m(385MH 2KV 1KV/Line-Line 10V 30A/m | 2.7GHz) lz~5.78GHz) dip 25 periods, | |
| ЕМС | EMC IMMUNITY MTBF | Voltage flicker BS EN/EN6060 Parameter ESD RF field susception EFT bursts Surge susception Conducted sus Magnetic field in | 1-1-2, BS EN/EN bility bility ceptibility mmunity erruption | BS EN/E | EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 | | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, Level 4, 100% dip 100% int | 15KV air ; Level ² 10V/m(80MHz~ ² 9~28V/m(385MH 2KV 1KV/Line-Line 10V 30A/m 1 periods, 30% o | 2.7GHz) lz~5.78GHz) dip 25 periods, | |
| EMC (Note. 8) | | Voltage flicker BS EN/EN6060 Parameter ESD RF field susception EFT bursts Surge susceptit Conducted sus Magnetic field i Voltage dip, int | 1-1-2, BS EN/EN bility bility ceptibility mmunity erruption n. Telcordia SI | BS EN/E | EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11 | | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, Level 4, 100% dip 100% int | 15KV air ; Level ² 10V/m(80MHz~ ² 9~28V/m(385MH 2KV 1KV/Line-Line 10V 30A/m 1 periods, 30% o | 2.7GHz) lz~5.78GHz) dip 25 periods, | |
| SAFETY & EMC (Note. 8) | МТВГ | Voltage flicker BS EN/EN6060 Parameter ESD RF field susception EFT bursts Surge susception Conducted sus Magnetic field in Voltage dip, int 3889.1K hrs min 79*54*33mm (Li | 1-1-2, BS EN/EN bility bility ceptibility mmunity erruption n. Telcordia SI | BS EN/E | EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11 | | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, Level 4, 100% dip 100% int | 15KV air ; Level ² 10V/m(80MHz~ ² 9~28V/m(385MH 2KV 1KV/Line-Line 10V 30A/m 1 periods, 30% o | 2.7GHz) lz~5.78GHz) dip 25 periods, | |
| EMC (Note. 8) | MTBF DIMENSION | Voltage flicker BS EN/EN6060 Parameter ESD RF field susception EFT bursts Surge susception Conducted sus Magnetic field in Voltage dip, int 3889.1K hrs min 79*54*33mm (L 205g; 60pcs / 1 | ntibility bility ceptibility mmunity erruption n. Telcordia SI*W*H) | BS EN/E | M61000-3-2 M61000-3-3 M61000-4-2 M61000-4-3 M61000-4-5 M61000-4-6 M61000-4-8 M61000-4-11 ; 794.6K hrs min | | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, Level 4, 100% dip 100% int | 15KV air ; Level ² 10V/m(80MHz~ ² 9~28V/m(385MH 2KV 1KV/Line-Line 10V 30A/m 1 periods, 30% o | 2.7GHz) Iz~5.78GHz) dip 25 periods, | |
| EMC (Note. 8) | MTBF DIMENSION PACKING | Voltage flicker BS EN/EN6060 Parameter ESD RF field susception EFT bursts Surge susception Conducted sus Magnetic field in Voltage dip, int 3889.1K hrs min 79*54*33mm (L 205g; 60pcs / 1 See page 4~5; | 1-1-2, BS EN/EN bility bility ceptibility mmunity erruption n. Telcordia SI *W*H) 3.3Kg / CARTON Other type availa | BS EN/E | M61000-3-2 M61000-3-3 M6 M61000-4-2 M61000-4-3 M61000-4-5 M61000-4-6 M61000-4-8 M61000-4-11 ; 794.6K hrs min | | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, Level 4, 100% dip 100% int | 15KV air ; Level ² 10V/m(80MHz~ ² 9~28V/m(385MH 2KV 1KV/Line-Line 10V 30A/m 1 periods, 30% o | 2.7GHz) lz~5.78GHz) dip 25 periods, | |
| EMC (Note. 8) | MTBF DIMENSION PACKING PLUG | Voltage flicker BS EN/EN6060 Parameter ESD RF field susception EFT bursts Surge susception Conducted sus Magnetic field in Voltage dip, int 3889.1K hrs min 79*54*33mm (L 205g; 60pcs / 1 See page 4~5; See page 4~5; d at 230VAC inp | bility bility ceptibility mmunity erruption n. Telcordia SI *W*H) 3.3Kg / CARTON Other type availa ut, rated load, 2 | BS EN/E | EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11 ; 794.6K hrs min | | Test Level 4, Level 3, Table 9, Level 3, Level 3, Level 3, Level 4, 100% dip 100% int | 15KV air ; Level ² 10V/m(80MHz~ ² 9~28V/m(385MH 2KV 1KV/Line-Line 10V 30A/m 1 periods, 30% o | 2.7GHz) lz~5.78GHz) dip 25 periods, | |

- b. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
 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)
 ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

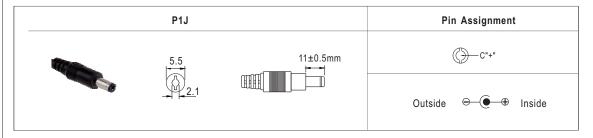






■ DC output plug

O Standard plug: P1J



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. | Α | В | С | Quick Adapter | |
|--|-----|------------------------------------|------------|------|------|-------|------------------------------|--|
| | | | | OD | ID | L | Accessory | |
| | A B | (Straight) (Right-angled) | P1I | 5.5 | 2.1 | 9.5 | | |
| | | | P1L | 5.5 | 2.5 | 9.5 | | |
| The same of the sa | | | P1M | 5.5 | 2.5 | 11.0 | Available | |
| | | | P1IR | 5.5 | 2.1 | 9.5 | (Current rating: 7.5A max.) | |
| | | | P1JR | 5.5 | 2.1 | 11.0 | (Current fatting, 7.5A max.) | |
| | | | P1LR | 5.5 | 2.5 | 9.5 | | |
| | | | P1MR | 5.5 | 2.5 | 11.0 | | |
| Barrel Style | | | Type No. | Α | В | С | | |
| | | | | OD | ID | L | | |
| | A B | (Straight) (Right-angled) | P2I | 5.5 | 2.1 | 9.5 | | |
| | | | P2J | 5.5 | 2.1 | 11.0 | | |
| | | | P2L | 5.5 | 2.5 | 9.5 | None | |
| | | | P2M | 5.5 | 2.5 | 11.0 | None | |
| | | | 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. | Α | В | С | | |
| | | | Type No. | OD | ID | L | | |
| | AB | Floating Locking B | P2S(S761K) | 5.53 | 2.03 | 12.06 | None | |
| | | | P2K(761K) | 5.53 | 2.54 | 12.06 | None | |
| 10 | | | P2C(S760K) | 5.53 | 2.03 | 9.52 | | |
| | | SWITCHCRAFT original or equivalent | P2D(760K) | 5.53 | 2.54 | 9.52 | | |



| Min. Pin Style | Type No. | A | | B C | | Quick Adapter Accessory | |
|---|---|--------------------------|----------------------|------------|------------|--|--|
| | P3A | OD ID L 2.35 0.7 11.0 | | Accessory | | | |
| <u> </u> | P3B | 4.0 | | | 11.0 | Available | |
| EIAJ equivalent | P3C | 4.75 | | 1.7 11.0 | | (Current rating: 5A max.) | |
| · | | A | В | C | D | | |
| Center Pin Style | Type No. | OD | ID | L | Center Pin | | |
| A C | 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 | | |
| | Tuno No | Pin Assignment | | | | | |
| Min. DIN 3 Pin with Lock (male) | Type No. | PIN No. Output | | | | | |
| | | 1 | | +Vo | | Available | |
| | R6B | 2 | | -Vo | | (Current rating: 7.5A max.) | |
| S KYCON KPPX-3P equivalent | | 3 | | +Vo | | ı | |
| M: DIN (D: | T N | Pin Assignment | | | | | |
| Min. DIN 4 Pin with Lock (male) | Type No. | PIN No |). | Output | | | |
| | R7B | 1 | | +Vc |) | Available | |
| | | 2 | | -Vo | | (Current rating: 7.5A max.) | |
| KYCON KPPX-4P equivalent | | 3 | | -Vo | | | |
| | | | 4 +Vo Pin Assignment | | | | |
| Min. DIN 4 Pin with Lock (female) | Type No. | PIN No. Output | | | | | |
| | R7BF | 1 |). | +Vo | | | |
| (55) 23 roundly | | 2 | | -Vo | | None | |
| 2 3 14 Lannar | | 3 | | -Vo | | | |
| KYCON KPJX-CM-4S equivalent | | 4 +Vo | | | | | |
| DIN 5 Pin (male) | | Pin Assignment | | | | | |
| (| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | PIN No |). | Output | | Available (Current rating: 7.5A max.) | |
| | R1B | 2 | | -Vo -Vo | | | |
| | | 3 | | +Vo -Vo | | | |
| 4 2 3 | | 4 | | | | | |
| | | 5 | | +Vc | | | |
| Stripped and tipped loads | Type No. | Pin Assignment | | | | | |
| Stripped and tinned leads | Type No. | PIN No. Output | | | | | |
| L (red) 1 2 L1 (black) | | 1 | | +Vc |) | None | |
| Length of Land L1 by request (MW's standard length, L: 25 mm, L1: 5 mm) (NOTE: The wire color is for reference only, please refer to the actual product) | | 2 | | -Vo | | INOTIE | |

■ Installation Manual

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