







(MPM-45)

(MPM-45-xxST)





















- 3.43"x2.05" compact size
- PCB chassis or screw terminal mounting version
- · Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/BS EN/EN60601-1
- Suitable for BF application with appropriate system consideration
- No load power consumption<0.1W
- Extremely low leakage current
- Wide operating temp. range -30 ~ +80°C
- EMI Class B without additional components
- Isolation Class II
- Protections: Short circuit / Overload / Over voltage
- No minimum load required
- Operating altitude up to 4000 meters (Note.7)
- 50W peak(10 sec.)
- · 3 years warranty

Applications

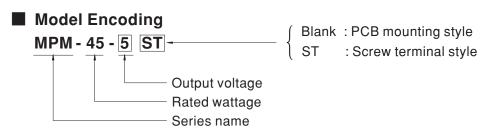
- · Portable medical device
- Mobile clinical workstation
- Medical computer monitor
- Medical examination instrument

GTIN CODE

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

Description

MPM-45 is a 45W high density and small size (87x52x29.5mm) AC/DC PCB-mount type medical grade power supply. It features the operation for 80~264VAC, a low no load power consumption less than 0.1W, a high efficiency up to 92.5%, Class II (no FG) double insulation, outstanding dissipation, 2~5G anti-vibration by model, high EMC performance, 4KVAC isolation, etc. The design observes IEC/BS EN/EN60601-1 and ANSI/AAMI ES60601-1 version three with 2 x MOPP level and ultra-low leakage current (<100µA). It is very suitable for BF (patient contact) type medical device or relevant equipment.



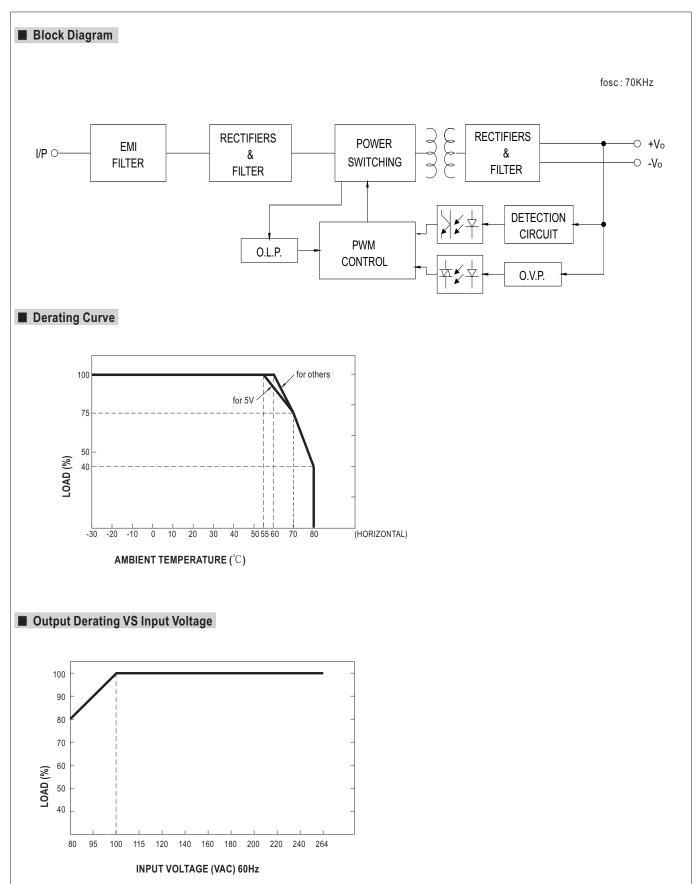


45W AC-DC High Reliable PCB-Mount Green Medical Power Module MPM-45 series

SPECIFICATION

| | | | MPM-45-5 | MPM-45-12 | MPM-45-15 | MPM-45 | -24 |]_ | MPM-45-48 |
|-----------------------|---|--|--|--|--|---|--|--|---|
| | DC VOLTAG | GE | 5V | 12V | 15V | 24V | | | 48V |
| | | Peak(10 sec.) | 8.8A | 4.13A | 3.3A | 2.1A | | | 1.05A |
| | CURRENT | Convection | 8A | 3.75A | 3A | 1.88A | 0.94A | | 0.94A |
| OUTPUT | RATED | Peak(10 sec.)Note.2 | | 49.5W | 49.5W | 50.4W | | | 50.4W |
| | | Convection | 40W | 45W | 45W | 45.1W | | | 45.1W |
| | RIPPLE & NOISE (max.) Note.3 | | | 120mVp-p | 120mVp-p | 200mVp | ı-n | | 240mVp-p |
| | VOLTAGE TOLERANCE Note.4 | | | ±2.0% | ±2.0% | ±2.0% | Υ Ρ | | ±2.0% |
| | LINE REGULATION | | ±0.5% | ±0.5% | ±0.5% | ±0.5% | | | ±0.5% |
| | | | | | | | | | |
| | LOAD REGULATION | | ±1.0% | | | | | | |
| | SETUP, RISE TIME | | 1000ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load | | | | | | |
| | HOLD UP TIME (Typ.) | | 50ms/230VAC 12ms/115VAC at full load | | | | | | |
| | VOLTAGE RANGE Note.5 | | | | | | | | |
| | FREQUENCY RANGE | | 47 ~ 63Hz | | | | | | |
| INPUT | EFFICIENC | Y (Typ.) | 88% | 91.5% | 92.5% | 92.5% | | | 92% |
| • . | AC CURRENT (Typ.) | | 1.2A/115VAC 0.6A/230VAC | | | | | | |
| | INRUSH CURRENT (Typ.) | | COLD START 30 | A/115VAC 60A/2 | 30VAC | | | | |
| | LEAKAGE CURRENT (max.) Note.6 | | Touch current <100 μ | A/264VAC | | | | | |
| | OVERLOAD OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. | | 115% ~ 135% rated o | utput power | | | | | |
| | | | Protection type : Hicc | up mode, recovers aut | tomatically after fault condi | tion is removed | | | |
| PROTECTION | | | 5.3 ~ 7.2V | 12.6 ~ 16.2V | 15.8 ~ 20.3V | 25.2 ~ 3 | 32.4V | | 50.4 ~ 64.8V |
| | | | | t down o/p voltage, re- | | | | | |
| ENVIRONMENT | | | 71 | | e-power on to recover | | | | |
| | | | -30 ~ +80°C (Refer to | 1 0 ' | , | | | | |
| | WORKING HUMIDITY | | 20 ~ 90% RH non-coi | , , | | | | | |
| | | | -40 ~ +85°C | lucionig | | | | | |
| | STORAGE TEMP. | | ±0.03%/°C (0 ~ 60°C | 71 | | | | | |
| | TEMP. COEFFICIENT | | | , | 1 11 : 000°C 0 / | ` | | | |
| | VIBRATION | | • | . (). | I soldering: 390°C,3s (max | , | | | |
| | | | | | 60min. each along X, Y, Z ax | es | | | |
| | | | | | nin. each along X, Y, Z axes | | | | |
| | OPERATING ALTITUDE Note.7 | | 4000 meters / OVC II | | | | | | |
| | | | IEC 60601-1:2005+A1, TUV BS EN/ EN 60601-1:2006+A1+A12+A2, ANSI/AAMI ES60601-1:2005+A2 CAN/CSA C22.2 No. 60601-1:2014+A2, EAC TP TC 004 approved; Design refer to BS EN/EN60335-1(by request) | | | | | | |
| | SAFETY ST | TANDARDS | | | | | | | |
| | | | CAN/CSA C22.2 No. | 60601-1:2014+A2, EA | | | | | |
| | ISOLATION | I LEVEL | CAN/CSA C22.2 No. Primary-Secondary: | 60601-1:2014+A2, EA | | | | | |
| | ISOLATION WITHSTAN | I LEVEL D VOLTAGE | CAN/CSA C22.2 No. Primary-Secondary: 1 I/P-O/P:4KVAC | 60601-1:2014+A2, EA 2xMOPP | C TP TC 004 approved; De | | | | |
| | ISOLATION WITHSTAN | I LEVEL | CAN/CSA C22.2 No. Primary-Secondary: 1 I/P-O/P:4KVAC I/P-O/P:100M Ohms | 60601-1:2014+A2, EA | C TP TC 004 approved; De | | EN/EN6 | 60335-1(| (by request) |
| | ISOLATION WITHSTAN | I LEVEL D VOLTAGE | CAN/CSA C22.2 No. Primary-Secondary: 1 I/P-O/P:4KVAC I/P-O/P:100M Ohms. Parameter | 60601-1:2014+A2, EA 2xMOPP | C TP TC 004 approved; De | esign refer to BS E | Test I | 60335-1(Level / N | (by request) |
| | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms Parameter Conducted | 60601-1:2014+A2, EA 2xMOPP | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 | esign refer to BS E | Test I | S0335-1(Level / N | (by request) |
| | ISOLATION WITHSTAN | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms Parameter Conducted Radiated | 60601-1:2014+A2, EA 2xMOPP | C TP TC 004 approved; De | esign refer to BS E | Test I | S0335-1(Level / N | (by request) |
| | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms Parameter Conducted | 60601-1:2014+A2, EA 2xMOPP | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 | esign refer to BS E | Test I | Level / N B B | (by request) |
| SAFETY & | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms Parameter Conducted Radiated | 60601-1:2014+A2, EA 2xMOPP | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 | esign refer to BS E | Test I Class Class | Level / N B B | (by request) |
| | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 3 I/P-O/P:4KVAC I/P-O/P:100M Ohms Parameter Conducted Radiated Harmonic Current | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 | esign refer to BS E | Test I Class Class | Level / N B B | (by request) |
| EMC | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 | esign refer to BS E | Test I Class Class Class | Level / N B | (by request) |
| EMC | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 | esign refer to BS E | Test I Class Class Class Test I | Level / N B B A | (by request) |
| EMC | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: J/P-O/P:4KVAC J/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% EN/EN60601-1-2 | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 | esign refer to BS E | Test I Class Class Class Test I Level | Level / N B B A Level / N 4, 15KV | lote |
| EMC | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% EN/EN60601-1-2 | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard | esign refer to BS E | Test I Class Class Class Test I Level Level | B B A Level / N 4, 15KV 3, 10V/r | lote lote / air ; Level 4, 8KV contact |
| EMC | ISOLATION WITHSTAN ISOLATION EMC EMISS | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: J/P-O/P:4KVAC J/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% EN/EN60601-1-2 | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 | esign refer to BS E | Test I Class Class Class Level Level Table | B B A Level / N 4, 15KV 3, 10V/r | lote lote / air ; Level 4, 8KV contacting (80MHz~2.7GHz) |
| EMC | ISOLATION WITHSTAN ISOLATION | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibilit | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% EN/EN60601-1-2 | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 | esign refer to BS E | Test I Class Class Class Level Level Level Level Level | B B A Level / N 4, 15KV 3, 10V/r 9, 9~28\3, 2KV | lote lote / air ; Level 4, 8KV contacting (80MHz~2.7GHz) |
| EMC | ISOLATION WITHSTAN ISOLATION EMC EMISS | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibilit EFT bursts | 60601-1:2014+A2, EA 2xMOPP 1500VDC / 25°C/ 70% EN/EN60601-1-2 | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 | esign refer to BS E | Test I Class Class Class Level Level Level Level | B B A Level / N 4, 15KV 3, 10V/r 9, 9~28\3, 2KV | lote lote /air; Level 4, 8KV contacting 80MHz~2.7GHz) V/m(385MHz~5.78GHz) |
| EMC | ISOLATION WITHSTAN ISOLATION EMC EMISS | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: J/P-O/P:4KVAC J/P-O/P:100M Ohms Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility Conducted susceptibility | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% EN/EN60601-1-2 y | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 | esign refer to BS E | Test I Class Class Class Level Level Level Level Level Level | B B A 4, 15KV 3, 10V/r 9, 9~28V 3, 1KV/l 3, 10V | lote lote /air; Level 4, 8KV contact m(80MHz~2.7GHz) V/m(385MHz~5.78GHz) |
| EMC | ISOLATION WITHSTAN ISOLATION EMC EMISS | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibilit EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu | 60601-1:2014+A2, EA 2xMOPP 1500VDC / 25°C / 70% EN/EN60601-1-2 y | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 | esign refer to BS E | Test I Class Class Class Test I Level Level Level Level Level Level | B B A 4, 15KV 3, 10V/r 9, 9~28 3, 2KV 3, 10V 4, 30A/r | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line |
| EMC | ISOLATION WITHSTAN ISOLATION EMC EMISS | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: J/P-O/P:4KVAC J/P-O/P:100M Ohms Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility Conducted susceptibility | 60601-1:2014+A2, EA 2xMOPP 1500VDC / 25°C / 70% EN/EN60601-1-2 y | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 | esign refer to BS E | Test I Class Class Class Level Level Level Level Level Level Level | B B A 4, 15KV 3, 10V/r 9, 9~28\dagger 3, 1KV/t 3, 10V 4, 30A/r dip 0.5 | lote lote /air; Level 4, 8KV contact m(80MHz~2.7GHz) V/m(385MHz~5.78GHz) |
| EMC | ISOLATION WITHSTAN ISOLATION EMC EMISS | I LEVEL D VOLTAGE I RESISTANCE | CAN/CSA C22.2 No. Primary-Secondary: J/P-O/P:4KVAC J/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% EN/EN60601-1-2 y bility nity tion | C TP TC 004 approved; De RH Standard BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11 | nsign refer to BS E | Test I Class Class Class Test I Level | B B A 4, 15KV 3, 10V/r 9, 9~28\dagger 3, 1KV/t 3, 10V 4, 30A/r dip 0.5 | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 period |
| EMC (Note 8) | ISOLATION WITHSTAN ISOLATION EMC EMISS | I LEVEL D VOLTAGE I RESISTANCE SION | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibilit EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% EN/EN60601-1-2 y billity nity tion Felcordia SR-332 (Bello | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11 Core); 563.4K hrs min. | nsign refer to BS E | Test I Class Class Class Class Level Level Level Level Level Level Level 295% 995% | B B A | lote lote /air ; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periotions 250 periods |
| EMC Note 8) | EMC IMMU MTBF DIMENSION | I LEVEL D VOLTAGE I RESISTANCE SION | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibilit EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% 500VDC / 25°C / 70% EN/EN60601-1-2 y bility nity tion felcordia SR-332 (Bello 87*52*29.5mm (L*W*I | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 563.4K hrs min. | nsign refer to BS E | Test I Class Class Class Class Level Level Level Level Level Level Level 295% 25°C) 2*33.5 | B B A 4, 15KV 3, 10V/r 9, 9~28V 3, 1KV/l 3, 10V d dip 0.5 interrup | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periotions 250 periods |
| EMC Note 8) | EMC IMMU MTBF DIMENSION DISOLATION EMC IMMU | I LEVEL D VOLTAGE I RESISTANCE SION NITY | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibilit EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% 500VDC / 25°C / 70% EN/EN60601-1-2 y billity nity tion Felcordia SR-332 (Bello 87*52*29.5mm (L*W*) 0.185Kg;60pcs/12.1Kg | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11 core); 563.4K hrs min. I | MIL-HDBK-217F (ninal style: 0.206k | Test I Class Class Class Class Level | B B A 4, 15KV 3, 10V/r 9, 9~28V 3, 1KV/l 3, 10V d dip 0.5 interrup | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periotions 250 periods |
| EMC (Note 8) | EMC IMMU MTBF DIMENSION All para | I LEVEL D VOLTAGE I RESISTANCE SION NITY meters NOT specia | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: | 60601-1:2014+A2, EA 2xMOPP 500VDC / 25°C / 70% 500VDC / 25°C / 70% EN/EN60601-1-2 y bility nity tion felcordia SR-332 (Bellu 87*52*29.5mm (L*W*I 0.185Kg;60pcs/12.1Kg asured at 230VAC inp | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 Core); 563.4K hrs min. H) Screw term g/0.94CUFT | MIL-HDBK-217F (minal style : 0.206k f ambient temper | Test I Class Class Class Class Level | B B A 4, 15KV 3, 10V/r 9, 9~28V 3, 1KV/l 3, 10V d dip 0.5 interrup | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periotions 250 periods |
| SAFETY & EMC (Note 8) | EMC IMMU MTBF DIMENSION 1. All para 2. 33% Du | I LEVEL D VOLTAGE I RESISTANCE SION NITY meters NOT specia | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: PCB mounting style: Illy mentioned are meawithin every 30 secon | 60601-1:2014+A2, EA 2xMOPP 1:500VDC / 25°C / 70% 1:500VDC / 25°C / 70% EN/EN60601-1-2 y billity hity tion felcordia SR-332 (Bello 87*52*29.5mm (L*W*lo 185Kg;60pcs/12.1Kg laured at 230VAC inposes. Average output pcds. Average output pcds. | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11 core); 563.4K hrs min. I | MIL-HDBK-217F (hinal style: 109*5 f ambient temper e rated power. | Test I Class Class Class Class Level Level Level Level Level Level 25°C) 2*33.5 (g;50pc gature. | B B A 4, 15KV 3, 10V/r 9, 9~28V 3, 1KV/l 3, 10V 4, 30A/r dip 0.5 interrup | lote lote /air; Level 4, 8KV contact m(80MHz~2.7GHz) //m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periods /v*H) /g/0.56CUFT |
| EMC (Note 8) | EMC IMMU MTBF DIMENSION PACKING 1. All para 2. 33% Du 3. Ripple 8 | I LEVEL D VOLTAGE I RESISTANCE SION NITY meters NOT speciality cycle maximum & noise are measure | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: PCB mounting style: Illy mentioned are meawithin every 30 secon | 60601-1:2014+A2, EA EXMOPP 1 500VDC / 25°C / 70% 5 500VDC / 25°C / 70% EN/EN60601-1-2 EN/EN60601-1-2 y bility nity tion Felcordia SR-332 (Bello 87*52*29.5mm (L*W*l 0.185Kg;60pcs/12.1Kg asured at 230VAC inp ds. Average output pc vidth by using a 12" tv | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 563.4K hrs min. If the screw term of the s | MIL-HDBK-217F (hinal style: 109*5 f ambient temper e rated power. | Test I Class Class Class Class Level Level Level Level Level Level 25°C) 2*33.5 (g;50pc gature. | B B A 4, 15KV 3, 10V/r 9, 9~28V 3, 1KV/l 3, 10V 4, 30A/r dip 0.5 interrup | lote lote /air; Level 4, 8KV contact m(80MHz~2.7GHz) //m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periods /v*H) /g/0.56CUFT |
| EMC (Note 8) | EMC IMMU MTBF DIMENSION 1. All para: 2. 33% Du. 3. Ripple 8 4. Tolerant 5. Derating | I LEVEL D VOLTAGE I RESISTANCE SION NITY Meters NOT specia ty cycle maximum of noise are measure is noise are measure in the control of th | CAN/CSA C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility Conducted susceptibility Conducted susceptibility Conducted field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: BY ENGEL STAN SECOND | EN/EN60601-1-2 EN/EN60601-1-2 EN/EN60601-1-2 EN/EN60601-1-2 y bility nity tion felcordia SR-332 (Bellot 87*52*29.5mm (L*W*I 0.185Kg;60pcs/12.1Kg sured at 230VAC inp ds. Average output pc vicith by using a 12" tv ion and load regulation s. Please check the desired | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 563.4K hrs min. If the screw term of the s | MIL-HDBK-217F (minal style : 109*5 if ambient temper e rated power. d with a 0.1 μ F 8 | Test I Class Class Class Class Level Level Level Level Level Level 25°C) 2*33.5 (g;50pc gature. | B B A 4, 15KV 3, 10V/r 9, 9~28V 3, 1KV/l 3, 10V 4, 30A/r dip 0.5 interrup | lote lote /air; Level 4, 8KV contact m(80MHz~2.7GHz) //m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periods /v*H) /g/0.56CUFT |
| EMC (Note 8) | EMC IMMU MTBF DIMENSION 1. All para: 2. 33% Du. 3. Ripple & 4. Toleran; 5. Derating 6. Touch of | NITY Meters NOT special ty cycle maximum & noise are measured in the control of | CAN/CSA C22.2 No. Primary-Secondary: J I/P-O/P:4KVAC I/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility Conducted susceptibility Conducted susceptibility Conducted field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: Illy mentioned are meawithin every 30 secone of at 20MHz of bandwort olderance, line regular nder low input voltage ed from primary input | 60601-1:2014+A2, EA EXMOPP 1 500VDC / 25°C / 70% 5 500VDC / 25°C / 70% EN/EN60601-1-2 y bility bility bility tion Felcordia SR-332 (Bellot 87*52*29.5mm (L*W*l 0.185Kg;60pcs/12.1Kg sured at 230VAC inp ds. Average output po yidth by using a 12" tw ion and load regulatic s. Please check the d to DC output. | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-7 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11 Core); 563.4K hrs min. H) Screw term g/0.94CUFT Screw term cut, rated load and 25°C of warts should not exceed the wisted pair-wire terminated on. Iderating curve for more declarating curve for more declara | MIL-HDBK-217F (initial style : 109*5 f ambient temper er rated power. d with a 0.1 μ F 8 tails. | Test I Class Class Class Class Level Level Level Level Level Level Level 25°C) 2*33.5; (g;50pc ature. | B B A Level / N B B A 4, 15KV 3, 10V/r 9, 9~28V 3, 1KV/l 3, 10V 4, 30A/r dip 0.5 interrup mm (L*W cs/11.3K | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periods v*H) ig/0.56CUFT |
| EMC (Note 8) | EMC IMMU MTBF DIMENSION 1. All para 2. 33% Du 3. Ripple 8 4. Tolerand 5. Derating 6. Touch c 7. The am | NITY Meters NOT specially cycle maximum of a noise are measured in the control of the control o | CAN/CSA C22.2 No. Primary-Secondary: J/P-O/P:4KVAC J/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility Conducted susceptibility Conducted susceptibility Conducted susceptibility Conducted field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: Jly mentioned are meawithin every 30 secone of at 20MHz of bandwer tolerance, line regular ander low input voltage deform primary input derating of 3.5°C/1000 | 60601-1:2014+A2, EA EXMOPP 1 500VDC / 25°C / 70% 1 500VDC / 25°C / 70% EN/EN60601-1-2 y bility hity tion Felcordia SR-332 (Bello 87*52*29.5mm (L*W*) 0.185Kg;60pcs/12.1K, asured at 230VAC inp ds. Average output po width by using a 12" to ion and load regulatio s. Please check the d to DC output. m with fanless models | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 563.4K hrs min. If the core is some should not exceed the wisted pair-wire terminated on. Iterating curve for more designed of 5°C/1000m with first standard in the core is and of 5°C/1000m with first standard. | MIL-HDBK-217F (ininal style: 1.09*5 ininal style: 0.206h f ambient temper e rated power. d with a 0.1 \(\mu \) F 8 tails. an models for op | Test I Class Class Class Class Level | B B A A | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periods v*H) lig/0.56CUFT el capacitor. |
| EMC (Note 8) | EMC IMMU MTBF DIMENSION 1. All para 2. 33% Du 3. Ripple 8 4. Tolerani 5. Derating 6. Touch c 7. The am 8. The pow | NITY Meters NOT specially cycle maximum of a noise are measured includes set up go may be needed uncurrent was measured bient temperature of wer supply is considered. | CAN/CSA C22.2 No. Primary-Secondary: J/P-O/P:4KVAC J/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: pCB mounting style: ally mentioned are meawithin every 30 seconed at 20MHz of bandw tolerance, line regulated ander low input voltage ed from primary input dered a component with the compo | EN/EN60601-1-2 EN/EN60601-1-2 EN/EN60601-1-2 EN/EN60601-1-2 y billity hity tion felcordia SR-332 (Bellot 87*52*29.5mm (L*W*l 0.185Kg;60pcs/12.1K, usured at 230VAC inp ds. Average output po vidth by using a 12" to ion and load regulatio ion and load regulatio is. Please check the d to DC output. with fanless models iich will be installed in | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 563.4K hrs min. If the core is some should not exceed the wisted pair-wire terminated on. Iderating curve for more designed and 5°C /1000m with for a final equipment. The | MIL-HDBK-217F (ninal style: 10.206H f ambient temper e rated power. d with a 0.1 \(\mu \) F 8 tails. an models for op final equipment r | Test I Class Class Class Class Class Level | B B A A | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periods v*H) g/0.56CUFT el capacitor. |
| EMC (Note 8) | EMC EMISS EMC EMISS EMC IMMU MTBF DIMENSION PACKING 1. All para 2. 33% Du 3. Ripple 8 4. Toleranu 5. Derating 6. Touch of 7. The am 8. The power meets E | NITY Meters NOT specially cycle maximum was noise are measured includes set up gray be needed uncurrent was measured bient temperature of wer supply is considered. | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibilit EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: pCB mounting style: pCB mounting style: otolerance, line regular inder low input voltage ed from primary input elerating of 3.5°C/1000 dered a component who guidance on how to persone of the second | 60601-1:2014+A2, EA EXMOPP 1:500VDC / 25°C / 70% 1:500VDC / 25°C / 70% EN/EN60601-1-2 EN/EN60601-1-2 y billity nity tion felcordia SR-332 (Bello 87*52*29.5mm (L*W*) 0.185Kg;60pcs/12.1K, asured at 230VAC inp ds. Average output po vidth by using a 12" tv ion and load regulatic s. Please check the d to DC output. m with fanless models ich will be installed in erform these EMC tes | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-1 core); 563.4K hrs min. If the core is some should not exceed the wisted pair-wire terminated on. It is and of 5°C/1000m with for a final equipment. The sts, please refer to "EMI tests, please refer to "EMI tests." | MIL-HDBK-217F (ninal style: 10.206H f ambient temper e rated power. d with a 0.1 \(\mu \) F 8 tails. an models for op final equipment r | Test I Class Class Class Class Class Level | B B A A | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periods v*H) g/0.56CUFT el capacitor. |
| EMC Note 8) | EMC IMMU EMC IMMU EMC IMMU MTBF DIMENSION PACKING 1. All para 2. 33% Du 3. Ripple & 4. Toleranu 5. Derating 6. Touch oc 7. The am 8. The poor meets E (as avail | NITY Meters NOT specially cycle maximum was noise are measured includes set up gray be needed under the was measured bient temperature of wer supply is considered on https://www. | CAN/CSA C22.2 No. Primary-Secondary: 1/P-O/P:4KVAC 1/P-O/P:100M Ohms. Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55035, BS Parameter ESD RF field susceptibilit EFT bursts Surge susceptibility Conducted suscepti Magnetic field immu Voltage dip, interrup 4590.4K hrs min. PCB mounting style: PCB mounting style: 1/P mentioned are mentioned a | EN/EN60601-1-2 EN/EN60601-1-2 EN/EN60601-1-2 EN/EN60601-1-2 y billity hity tion felcordia SR-332 (Bello 87*52*29.5mm (L*W*t 0.185Kg;60pcs/12.1K, asured at 230VAC inp ds. Average output po yidth by using a 12" tv ion and load regulatio s. Please check the d to DC output. m with fanless models ich will be installed in erform these EMC te ad/PDF/EMI_statement | RH Standard BS EN/EN55011 (CISPR1 BS EN/EN55011 (CISPR1 BS EN/EN61000-3-2 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-1 core); 563.4K hrs min. If the core is some should not exceed the wisted pair-wire terminated on. It is and of 5°C/1000m with for a final equipment. The sts, please refer to "EMI tests, please refer to "EMI tests." | MIL-HDBK-217F (ninal style: 109*5 ninal style: 0.206 f ambient temper er rated power. d with a 0.1 μ F 8 tails. an models for op final equipment resting of compon | Test I Classs Class Class Class Level Level Level Level 25°C) 2*33.5 26°G;350pc atture. | Eevel / N B B A 4, 15KV 3, 10V/r 9, 9~28\3, 2KV 3, 1KV/t 3, 10V 4, 30A/r dip 0.5 interrup mm (L*W cs/11.3K F paralle g altitude e re-con wer sup | lote lote /air; Level 4, 8KV contacting (80MHz~2.7GHz) V/m(385MHz~5.78GHz) Line-Line m periods, 30% dip 25 periods v*H) g/0.56CUFT el capacitor. |





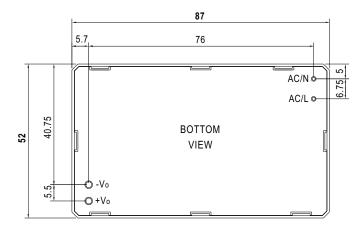


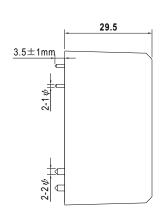
■ Mechanical Specification

(Unit: mm , tolerance ± 1mm)

• PCB mounting style (MPM-45)

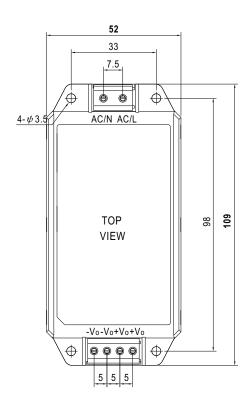
Case No.IRM60

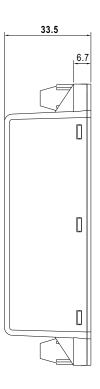




AC/L, AC/N P/N diameter: 1 ψ +Vo, -Vo P/N diameter:2 ψ

Screw terminal style (MPM-45-xxST)





■ Installation Manual

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