



Your Reliable Power Partner



Medical Power Supply

AC/DC Switching Power Supplies



Company Profile

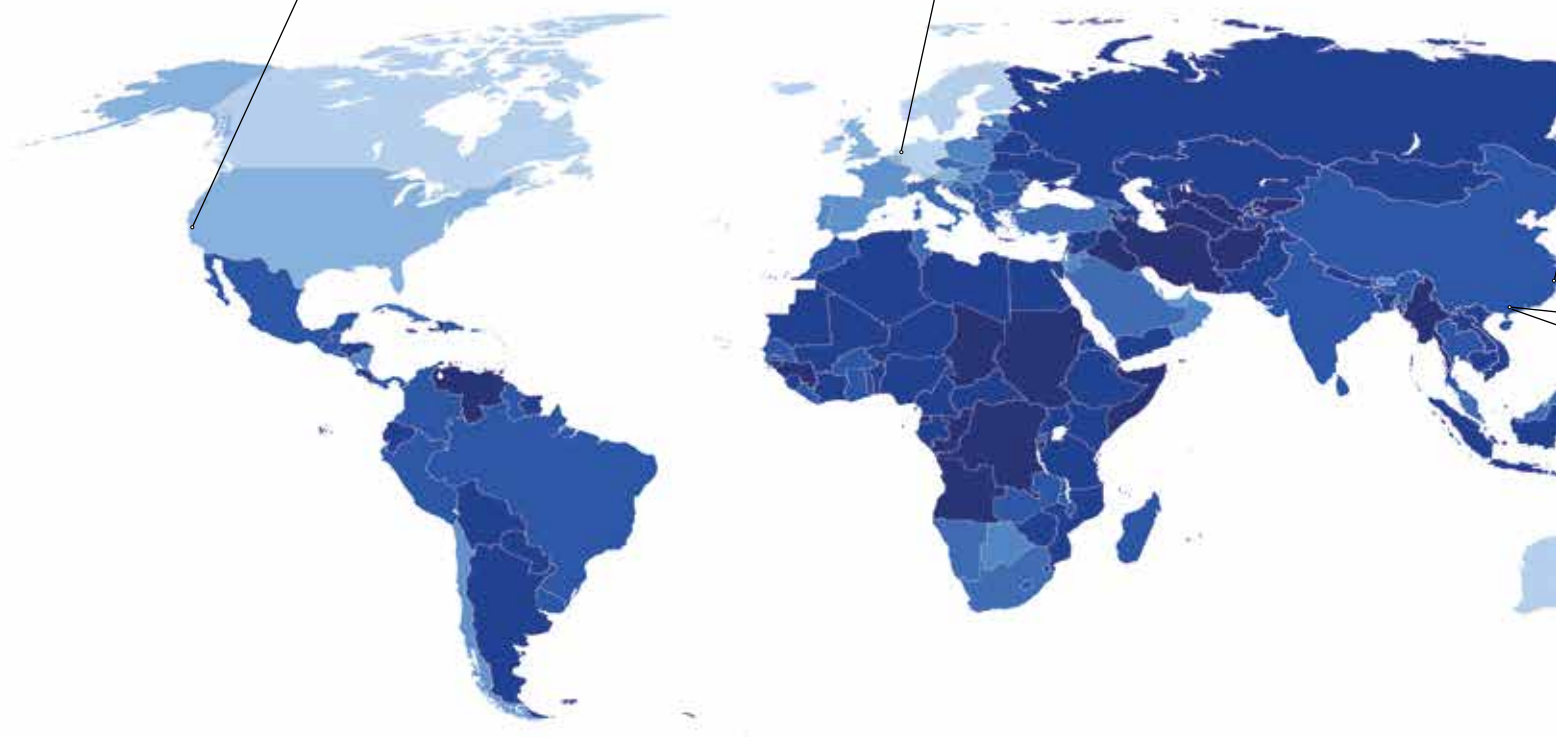
Established in 1982, MEAN WELL is a leading standard switching power supply manufacturers in the world. MEAN WELL currently operates under six financially independent but cooperating companies in Taiwan, China, USA and Europe and four factories in Taiwan, GuanZhou and SuZhou. The product lines include AC/DC switching power supplies, DC/DC converters, waterproof LED power supplies, DC/AC inverters and battery chargers. We have over 6,000 standard models widely used in medical, automation, communication, LED lighting, moving sign, and office automation fields.

With more than thirty-year experiences in the topology design of power supplies, MEAN WELL divides medical power supplies into enclosed type, open frame type, on board type and external adaptors by product appearances, installation ways and the application occasions, unveiling the aforementioned four types of medical power supplies which are available to cover 5~600W and offer models with 3.3~48V single/multiple output voltages.

MEAN WELL USA



MEAN WELL EUROPE



The whole product line has supplied more than 70 series and 400 models in total for customers to choose and has devoted to develop green medical power supplies, thus unveils the energy-saving medical power supplies in compliance with DoE Level VI.

The medical power supplies of MEAN WELL not only comply with IEC60601-1 3rd version but also possess 2xMOPP and MOOP levels, providing the highest level of isolation protection that are suitable to be applied to type BF (patient contact) devices. The whole product line all passes the international safety regulations — UL/CUL/TUV/CB/CE/FCC and electromagnetic compatibility (EMC) testing thus further assure the safety for usage that is suitable for household medical devices and various medical apparatuses used in the hospital .

With more than 30 years of experience in R&D and production of standard power supplies, MEAN WELL has ten product category covering 5,000 models, to provide “One Stop Shopping” power solutions. Every product in the MEAN WELL range is the result of rigid procedures governing design, design verification test (DVT), design quality test (DQT), component selection, pilot-run production, and mass production.

With more than 200 distributors globally, the MEAN WELL products are distributed to over 70 countries worldwide. The small size orders can expect delivery within 24 hours without MOQ requirement. If you are looking for switching power supply with high reliability, good quality, reasonable price and full series products which can satisfy your various demands, MEAN WELL, a total solution provider, is definitely your first choice!



MEAN WELL SUZHOU



MEAN WELL TAIWAN



MEAN WELL GUANGZHOU



MEAN WELL HWAWEI



Reliable Quality

The brand name "MEAN WELL" is defined as "have good intentions". We strongly believe that the product quality is the life of power supply manufacturer. "To become the reliable power partner" has been the motivation for MEAN WELL to grow continuously.

In 1994, MEAN WELL acquired the ISO9001 certification and began to implement the total quality management (TQM) system, which are audited by TUV annually to continuous review and improvement. In April 2013, MEAN WELL acquired the ISO14000 certification and obtained the OHSAS18001 system (ESH, environmental safety and health) in 2015, to take the concept of environmental protection into action, and expect to create a safe and healthy life.



OHSAS18001



ISO9001



ISO14000

MEAN WELL medical power supply products comply with UL / CUL / TUV / CB / CE / FCC certificates, including ANSI/AAMI ES60601-1 / ES60601-1-11, TUV EN60601-1 / EN60601-1-11, IEC60601-1, EN55011, EN55022.



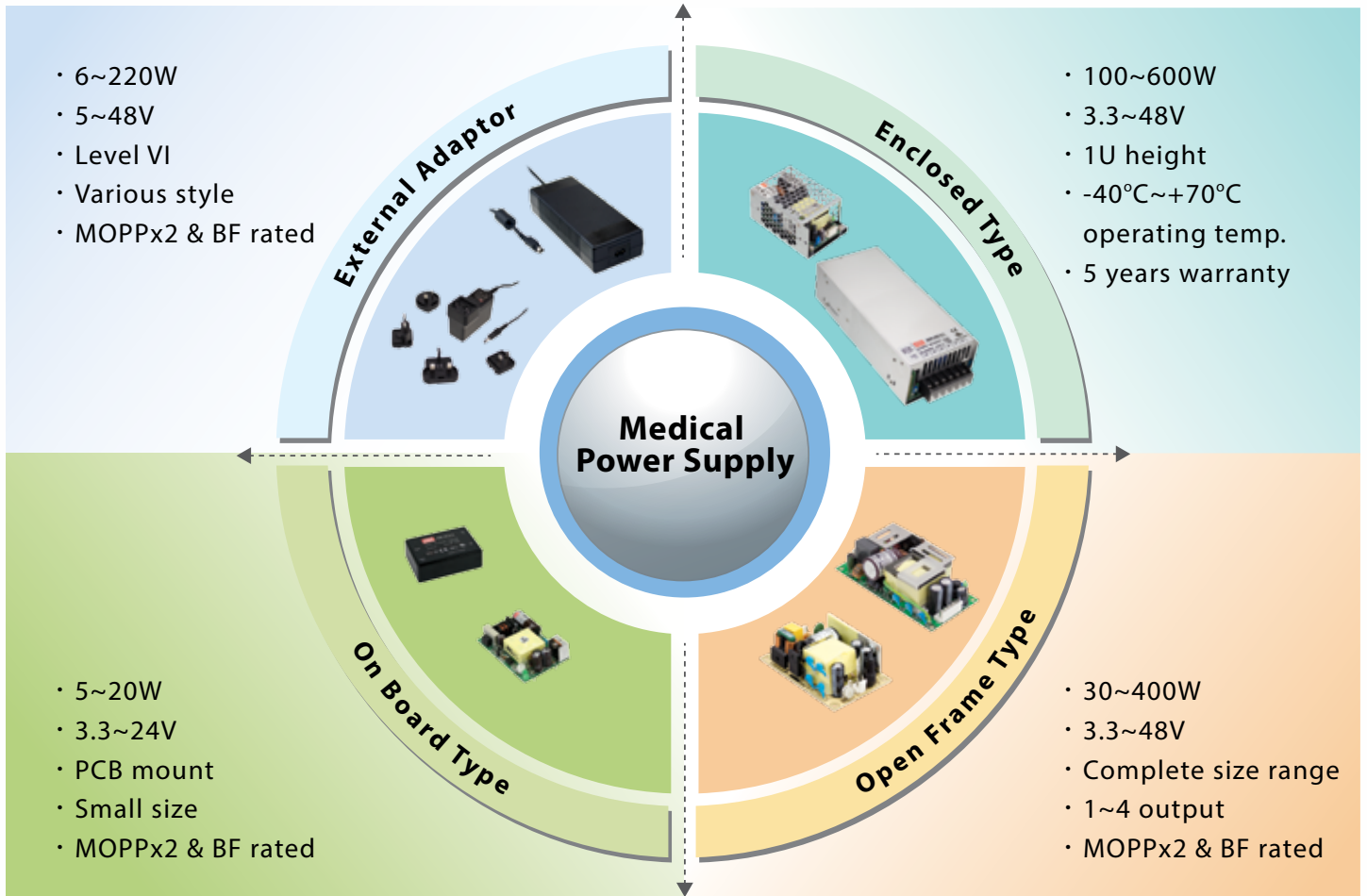


MEAN WELL has a complete quality management system. To ensure product quality, 100% burn-in test, function test and pressure test have been applied in manufacturing process, while the MIL-105E sampling method used in IQC, PCBQC (semi-finished products testing) and FQC phases. In the R&D stage, MEAN WELL quality engineers customize the "Test Plan" for each product, to complete the verifications of DFMEA, DVT/DQT, ORT, EMC, drop test, vibration test, thermal shock test, and reliability test.

In production stage, the product engineers co-work with process engineers to review the pilot run, semi-finished products quality control, process checking, finished product quality control, and the feedback analysis as well as the production problems occurred.



Product Range



Ambulance



Operation Room



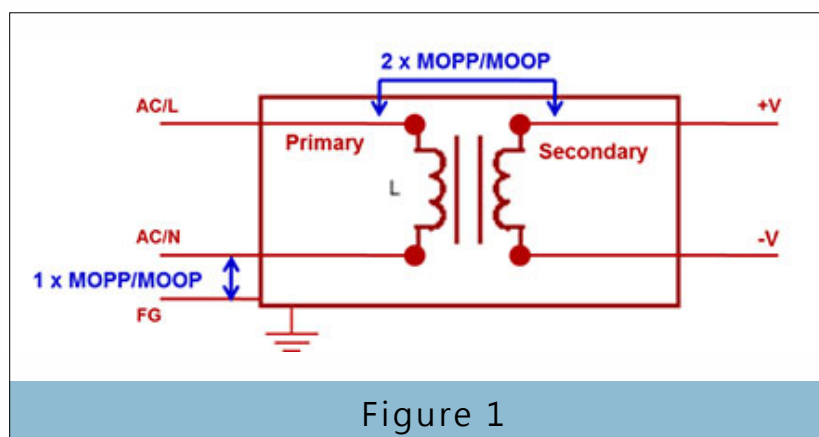
The Difference between MOPP and MOOP in IEC 60601-1 3rd

In 2005, the International Electrotechnical Commission (IEC) published the third edition of medical safety standard (IEC60601-1: 2005), to replace the original second edition (IEC60601-1: 1998). The main difference between the 2nd edition and 3rd edition is the insulation level. The 2nd edition is divided into BI (Basic Isolation), SI (Supplementary Isolation), DI (Double Isolation) and RI (Reinforced Isolation), and the 3rd edition of new IEC60601-1 is divided into two categories of MOPP and MOOP.

The major impact of 3rd edition is the distinction made between operator and patient. As result, Means of Protection (MOP) was introduced and it is further categorized into 2 different classifications, which are Means of Patient Protection (MOPP) and Means of Operator Protection (MOOP).

It is the responsibility of the medical product manufacturer to determine the likelihood of a patient coming into contact, and decide whether patient protection (MOPP) or operator protection (MOOP) to use. If the medical devices come into contact with patients, they must meet the insulation requirements of MOPP.

In either case, the insulation between PRIMARY to SECONDARY must meet at least 2 x MOP and at least 1 x MOP between PRIMARY to protective earth (FG) at normal conditions. It is shown on Figure 1.



A power supplies that meet 2 x MOPP standards provide the highest level of protection. It can be advantageous to specify a 2 x MOPP power supply because it can cover most of medical applications.

Medical Bed



Ultrasound Scanner



External Adaptor 6~220W



Features

- Various styles:
Desktop or wall-mounted, fixed or interchangeable input plug
- Output voltage from 5V to 48V available
- Class I & II models available
- ANSI/AAMI ES60601-1-11, EN60601-1-11
household medical regulations
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration (except GSM40A~220A)
- Low leakage current <math>< 50\sim 100\mu\text{A}</math>
- No load power consumption <math>< 0.075\sim 0.15\text{W}</math>
- Energy efficiency Level VI
(6W and 18~60W 5~9V for Level V)
- High operating temperature up to 70°C
- Optional lock type DC plug
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and meet CoC version 5
- 3 years warranty





▲ GSM40A/60A
125x 50x 31.5mm

▲ GSM90A
145x 60x 32mm

▲ GSM120A
167x 67x 35mm

▲ GSM160A
175x 72x 35mm

▲ GSM220A
210x 85x 46mm

■ Desktop (IEC320-C14/Class I) – 40W

| Order No. | Output | Effi. |
|--------------|-------------|-------|
| GSM40A05-P1J | 5V, 5.00A | 81.0% |
| GSM40A07-P1J | 7.5V, 5.34A | 85.5% |
| GSM40A09-P1J | 9V, 4.45A | 86.0% |
| GSM40A12-P1J | 12V, 3.34A | 88.0% |
| GSM40A15-P1J | 15V, 2.67A | 88.5% |
| GSM40A18-P1J | 18V, 2.22A | 89.5% |
| GSM40A24-P1J | 24V, 1.67A | 90.0% |
| GSM40A48-P1J | 48V, 0.84A | 91.0% |

■ Desktop (IEC320-C14/Class I) – 120W

| Order No. | Output | Effi. |
|---------------|------------|-------|
| GSM120A12-R7B | 12V, 8.5A | 88.0% |
| GSM120A15-R7B | 15V, 7.00A | 89.0% |
| GSM120A20-R7B | 20V, 6.00A | 89.0% |
| GSM120A24-R7B | 24V, 5.00A | 90.0% |
| GSM120A48-R7B | 48V, 2.50A | 91.5% |

■ Desktop (IEC320-C14/Class I) – 60W

| Order No. | Output | Effi. |
|--------------|-------------|-------|
| GSM60A05-P1J | 5V, 6.00A | 81.5% |
| GSM60A07-P1J | 7.5V, 6.00A | 86.0% |
| GSM60A09-P1J | 9V, 6.00A | 87.5% |
| GSM60A12-P1J | 12V, 5.00A | 88.0% |
| GSM60A15-P1J | 15V, 4.00A | 88.5% |
| GSM60A18-P1J | 18V, 3.33A | 89.0% |
| GSM60A24-P1J | 24V, 2.50A | 90.0% |
| GSM60A48-P1J | 48V, 1.25A | 91.0% |

■ Desktop (IEC320-C14/Class I) – 160W

| Order No. | Output | Effi. |
|---------------|------------|-------|
| GSM160A12-R7B | 12V, 11.5A | 90.0% |
| GSM160A15-R7B | 15V, 9.6A | 91.0% |
| GSM160A20-R7B | 20V, 8.0A | 92.5% |
| GSM160A24-R7B | 24V, 6.67A | 93.0% |
| GSM160A48-R7B | 48V, 3.34A | 94.0% |

■ Desktop (IEC320-C14/Class I) – 90W

| Order No. | Output | Effi. |
|--------------|------------|-------|
| GSM90A12-P1M | 12V, 6.67A | 88.0% |
| GSM90A15-P1M | 15V, 6.00A | 89.0% |
| GSM90A19-P1M | 19V, 4.74A | 89.0% |
| GSM90A24-P1M | 24V, 3.75A | 90.0% |
| GSM90A48-P1M | 48V, 1.87A | 91.0% |

■ Desktop (IEC320-C14/Class I) – 220W

| Order No. | Output | Effi. |
|---------------|------------|-------|
| GSM220A12-R7B | 12V, 15.0A | 90.0% |
| GSM220A15-R7B | 15V, 13.4A | 90.0% |
| GSM220A20-R7B | 20V, 11.0A | 92.0% |
| GSM220A24-R7B | 24V, 9.20A | 93.5% |
| GSM220A48-R7B | 48V, 4.60A | 94.5% |

■ Medical / Hospital Grade AC Power Cord

Order No.: YP18+YC12



External Adaptor 6~220W



▲ GSM18B/25B/36B
79x 54x 33mm

▲ GSM40B/60B
125x 50x 31.5mm

▲ GSM90B
145x 60x 32mm

▲ GSM120B
167x 67x 35mm

▲ GSM160B
175x 72x 35mm

▲ GSM220B
210x 85x 46mm

Desktop/Wall-mounted (Class II) – 18W

| Order No. | Output | Effi. |
|--------------|-------------|-------|
| GSM18□05-P1J | 5V, 3.00A | 80% |
| GSM18□07-P1J | 7.5V, 2.00A | 83% |
| GSM18□09-P1J | 9V, 2.00A | 84% |
| GSM18□12-P1J | 12V, 1.50A | 85% |
| GSM18□15-P1J | 15V, 1.20A | 85.5% |
| GSM18□18-P1J | 18V, 1.00A | 86% |
| GSM18□24-P1J | 24V, 0.75A | 87% |
| GSM18□48-P1J | 48V, 0.375A | 88% |

□=B/U/E ; B: IEC320-C8, U: American 2P, E: European 2P

Desktop/Wall-mounted (Class II) – 25W

| Order No. | Output | Effi. |
|--------------|-------------|-------|
| GSM25□05-P1J | 5V, 4.00A | 80% |
| GSM25□07-P1J | 7.5V, 2.93A | 83% |
| GSM25□09-P1J | 9V, 2.77A | 84% |
| GSM25□12-P1J | 12V, 2.08A | 86% |
| GSM25□15-P1J | 15V, 1.66A | 86% |
| GSM25□18-P1J | 18V, 1.38A | 86% |
| GSM25□24-P1J | 24V, 1.04A | 87% |
| GSM25□48-P1J | 48V, 0.52A | 88% |

□=B/U/E ; B: IEC320-C8, U: American 2P, E: European 2P

Desktop/Wall-mounted (Class II) – 36W

| Order No. | Output | Effi. |
|--------------|-------------|-------|
| GSM36□05-P1J | 5V, 4.50A | 80% |
| GSM36□07-P1J | 7.5V, 4.32A | 83% |
| GSM36□09-P1J | 9V, 4.00A | 84% |
| GSM36□12-P1J | 12V, 3.00A | 86% |
| GSM36□15-P1J | 15V, 2.40A | 87% |
| GSM36□18-P1J | 18V, 2.00A | 87% |
| GSM36□24-P1J | 24V, 1.50A | 87% |
| GSM36□48-P1J | 48V, 0.75A | 88% |

□=B/U/E ; B: IEC320-C8, U: American 2P, E: European 2P

Desktop (IEC320-C8/Class II) – 40W

| Order No. | Output | Effi. |
|--------------|-------------|-------|
| GSM40B05-P1J | 5V, 5.00A | 81.0% |
| GSM40B07-P1J | 7.5V, 5.34A | 85.5% |
| GSM40B09-P1J | 9V, 4.45A | 86.0% |
| GSM40B12-P1J | 12V, 3.34A | 88.0% |
| GSM40B15-P1J | 15V, 2.67A | 88.5% |
| GSM40B18-P1J | 18V, 2.22A | 89.0% |
| GSM40B24-P1J | 24V, 1.67A | 90.0% |
| GSM40B48-P2J | 48V, 0.84A | 91.0% |

Desktop (IEC320-C8/Class II) – 60W

| Order No. | Output | Effi. |
|--------------|-------------|-------|
| GSM60B05-P1J | 5V, 6.00A | 81.5% |
| GSM60B07-P1J | 7.5V, 6.00A | 86.0% |
| GSM60B09-P1J | 9V, 6.00A | 87.5% |
| GSM60B12-P1J | 12V, 5A | 88.0% |
| GSM60B15-P1J | 15V, 4A | 88.5% |
| GSM60B18-P1J | 18V, 3.33A | 89.0% |
| GSM60B24-P1J | 24V, 2.5A | 90.0% |
| GSM60B48-P1J | 48V, 1.25A | 91.5% |

Desktop (IEC320-C8/Class II) – 90W

| Order No. | Output | Effi. |
|--------------|------------|-------|
| GSM90B12-P1M | 12V, 6.67A | 88.0% |
| GSM90B15-P1M | 15V, 6.00A | 89.0% |
| GSM90B19-P1M | 19V, 4.74A | 89.0% |
| GSM90B24-P1M | 24V, 3.75A | 90.0% |
| GSM90B48-P1M | 48V, 1.87A | 91.0% |

Desktop (IEC320-C8/Class II) – 120W

| Order No. | Output | Effi. |
|---------------|------------|-------|
| GSM120B12-R7B | 12V, 8.5A | 88.0% |
| GSM120B15-R7B | 15V, 7.00A | 89.0% |
| GSM120B20-R7B | 20V, 6.00A | 89.0% |
| GSM120B24-R7B | 24V, 5.00A | 90.0% |
| GSM120B48-R7B | 48V, 2.50A | 91.5% |

Desktop (IEC320-C8/Class II) – 160W

| Order No. | Output | Effi. |
|---------------|------------|-------|
| GSM160B12-R7B | 12V, 11.5A | 90.0% |
| GSM160B15-R7B | 15V, 9.6A | 91.0% |
| GSM160B20-R7B | 20V, 8.0A | 92.5% |
| GSM160B24-R7B | 24V, 6.67A | 93.0% |
| GSM160B48-R7B | 48V, 3.34A | 94.0% |

Desktop (IEC320-C8/Class II) – 220W

| Order No. | Output | Effi. |
|---------------|------------|-------|
| GSM220B12-R7B | 12V, 15.0A | 90.0% |
| GSM220B15-R7B | 15V, 13.4A | 90.0% |
| GSM220B20-R7B | 20V, 11.0A | 92.0% |
| GSM220B24-R7B | 24V, 9.20A | 93.5% |
| GSM220B48-R7B | 48V, 4.60A | 94.5% |



▲ GSM06U
66x 32x 42.5mm



▲ GSM06E
66x 32x 42.5mm



▲ GSM18U/25U/36U
79x 54x 33mm



▲ GSM18E/25E/36E
79x 54x 33mm



▲ GEM18I
75.5x 39.1x 56.2mm

■ Wall-mounted (Class II) – 6W

| Order No. | Output | Effi. |
|--------------|-------------|-------|
| GSM06□05-P1J | 5V, 1.20A | 68% |
| GSM06□06-P1J | 6V, 1.00A | 74% |
| GSM06□07-P1J | 7.5V, 0.80A | 74% |
| GSM06□09-P1J | 9V, 0.66A | 76% |
| GSM06□12-P1J | 12V, 0.50A | 77% |
| GSM06□15-P1J | 15V, 0.40A | 79% |
| GSM06□18-P1J | 18V, 0.33A | 80% |
| GSM06□24-P1J | 24V, 0.25A | 82% |

□ = U/E ; U: American 2P, E: European 2P

■ Wall-mounted (Interchangeable Type/Class II) – 18W

| Order No. (main body) | Output | Effi. |
|-----------------------|------------|-------|
| GEM18I05-P1J | 5V, 3.00A | 80% |
| GEM18I09-P1J | 9V, 2.00A | 84% |
| GEM18I12-P1J | 12V, 1.50A | 84% |
| GEM18I15-P1J | 15V, 1.20A | 84% |
| GEM18I18-P1J | 18V, 1.00A | 84% |
| GEM18I24-P1J | 24V, 0.75A | 85% |
| GEM18I48-P1J | 48V, 0.38A | 87% |

■ Interchangeable AC Plug Specifically for GEM18I

| AC Plug Order No. | AC Plug Type | | | | Mixed Four Type |
|-------------------|-----------------|-------------|---------------|-------------|-----------------|
| | AC Plug-AU2 | AC Plug-UK2 | AC Plug-EU2 | AC Plug-US2 | AC Plug-Mix2 |
| | | | | | |
| | Australian Type | U.K. Type | European Type | U.S. Type | |

Note: Main body unit and AC plug should be ordered separately; The main body needs to be used along with any of the AC plug.

■ Optional DC Plug List

| Tuning Fork Style | | | | Barrel Style | | | | Lock Style | | | | DIN 5 Pin | | | | DIN 4 Pin with Lock | | | |
|-------------------|-----|-----|------|--------------|-----|-----|------|-------------|------|------|------------|-----------|----------------|------------|---------|---------------------|----------------|-------|--|
| | | | | | | | | | | | | | | | | | | | |
| Type | A | B | C | Type | A | B | C | Type | A | B | C | Type | Pin Assignment | | | Type | Pin Assignment | | |
| | OD | ID | L | | OD | ID | L | | OD | Pin | Assignment | | Pin | Assignment | Pin No. | | Output | | |
| P1I | 5.5 | 2.1 | 9.5 | P2I | 5.5 | 2.1 | 9.5 | P2S (S761K) | 5.53 | 2.03 | 12.06 | R1B | 1 | COM | COM | R7B | 1 | +Vout | |
| P1J | 5.5 | 2.1 | 11.0 | P2J | 5.5 | 2.1 | 11.0 | | | | | | 2 | COM | COM | | 2 | GND | |
| P1L | 5.5 | 2.5 | 9.5 | P2L | 5.5 | 2.5 | 9.5 | | | | | | 3 | Vout | +5V | | 3 | GND | |
| P1M | 5.5 | 2.5 | 11.0 | P2M | 5.5 | 2.5 | 11.0 | | | | | | 4 | COM | -Vout | | 4 | GND | |
| | | | | | | | | | | | | | 5 | Vout | +Vout | | | +Vout | |

Note: Minimum order quantity is varied for different models.

Open Frame Type 30~400W



Features

- Complete size for choice –
3" x2" , 4" x2" , 5" x3" , 7" x4.2"
- Single and multiple outputs
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration (except RPS/D/T-75, MPS-30/45/65, MPD/T-45/65)
- Class I & II models available
- Low leakage current <math><100\sim300\mu\text{A}</math>
- No load power consumption <math><0.1\sim0.75\text{W}</math>
- Remote ON/OFF , remote sense ,
5V standby output ,12V auxiliary output,
P.G./P.F. signal for selected models
- 3 years warranty

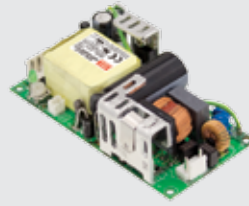




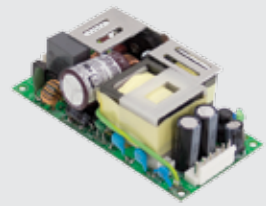
▲ RPS-30/45/65
76.2x 50.8x 24mm
(3" x2")



▲ RPS/D/T-60
101.6x 50.8x 29mm
(4" x2")



▲ RPS-120
101.6x 50.8x 29mm
(4" x2")



▲ RPS-200
101.6x 50.8x 29mm
(4" x2")

■ 30W: Single Output – Class II

| Model No. | Output (Rated/Peak) | Effi. |
|------------|----------------------|-------|
| RPS-30-3.3 | 3.3V, 6A / 6.60A | 80.0% |
| RPS-30-5 | 5V, 6A / 6.60A | 82.0% |
| RPS-30-7.5 | 7.5V, 4A / 4.40A | 84.0% |
| RPS-30-12 | 12V, 2.5A / 2.75A | 88.0% |
| RPS-30-15 | 15V, 2A / 2.20A | 89.0% |
| RPS-30-24 | 24V, 1.25A / 1.375A | 89.5% |
| RPS-30-48 | 48V, 0.625A / 0.687A | 91.0% |

■ 45W: Single Output – Class II

| Model No. | Output (Rated/Peak) | Effi. |
|------------|---------------------|-------|
| RPS-45-3.3 | 3.3V, 8A / 8.80A | 80.0% |
| RPS-45-5 | 5V, 8A / 8.80A | 83.0% |
| RPS-45-7.5 | 7.5V, 5.4A / 5.95A | 85.0% |
| RPS-45-12 | 12V, 3.8A / 4.18A | 88.0% |
| RPS-45-15 | 15V, 3A / 3.30A | 89.0% |
| RPS-45-24 | 24V, 1.9A / 2.10A | 90.0% |
| RPS-45-48 | 48V, 0.94A / 1.03A | 91.0% |

■ 65W: Single Output – Class II

| Model No. | Output (Rated/Peak) | Effi. |
|------------|---------------------|-------|
| RPS-65-3.3 | 3.3V, 10A / 11A | 80.0% |
| RPS-65-5 | 5V, 10A / 11A | 84.0% |
| RPS-65-7.5 | 7.5V, 8A / 8.80A | 85.0% |
| RPS-65-12 | 12V, 5.42A / 5.96A | 88.0% |
| RPS-65-15 | 15V, 4.34A / 4.77A | 89.0% |
| RPS-65-24 | 24V, 2.71A / 2.98A | 90.0% |
| RPS-65-48 | 48V, 1.36A / 1.49A | 91.0% |

■ 60W: Single Output – Class I

| Model No. | Output (Rated/Peak) | Effi. |
|------------|---------------------|-------|
| RPS-60-3.3 | 3.3V, 10A / 11A | 74.0% |
| RPS-60-5 | 5V, 10A / 11A | 79.0% |
| RPS-60-12 | 12V, 5A / 5.5A | 83.0% |
| RPS-60-15 | 15V, 4A / 4.4A | 84.0% |
| RPS-60-24 | 24V, 2.5A / 2.75A | 85.0% |
| RPS-60-48 | 48V, 1.25A / 1.375A | 86.0% |

■ 60W: Dual Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|---------------------------------|-------|------|
| RPD-60A | 5V, 0.5~5.5A 12V, 0.1~2.2A | 78% | 54W |
| RPD-60B | 5V, 0.5~3.85A 24V, 0.1~1.65A | 82% | 59W |

■ 60W: Triple Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|---|-------|------|
| RPT-60A | 5V, 0.5~4.4A 12V, 0.1~2.2A -5V, 0.1~0.55A | 77% | 51W |
| RPT-60B | 5V, 0.5~4.4A 12V, 0.1~2.2A -12V, 0.1~0.55A | 78% | 55W |
| RPT-60C | 5V, 0.5~4.4A 15V, 0.1~0.65A -15V, 0.1~0.55A | 79% | 55W |
| RPT-60D | 5V, 0.5~3.85A 24V, 0.1~1.1A 12V, 0.1~0.55A | 79% | 52W |
| RPT-6003 | 3.3V, 0.5~5.5A 5V, 0.3~3.3A 12V, 0.1~0.77A | 75% | 44W |

■ 120W: Single Output – Class I or II

| Model No. | Output (Convection/10CFM) | Effi. |
|------------|---------------------------|-------|
| RPS-120-12 | 12V, 7A / 10A | 88.0% |
| RPS-120-15 | 15V, 5.6A / 8A | 88.5% |
| RPS-120-24 | 24V, 3.5A / 5A | 90.0% |
| RPS-120-27 | 27V, 3.15A / 4.5A | 90.0% |
| RPS-120-48 | 48V, 1.75A / 2.5A | 91.0% |

■ 200W: Single Output – Class I or II

| Model No. | Output (Convection/20.5CFM) | Effi. |
|------------|-----------------------------|-------|
| RPS-200-12 | 12V, 11.7A / 16.7A | 92.0% |
| RPS-200-15 | 15V, 9.4A / 13.4A | 92.0% |
| RPS-200-24 | 24V, 5.9A / 8.4A | 93.0% |
| RPS-200-27 | 27V, 5.3A / 7.5A | 93.0% |
| RPS-200-48 | 48V, 3A / 4.2A | 94.0% |

■ Open Frame Type 30~400W



▲ RPS/D/T-75
127x 76.2x 31mm
(5" x3")



▲ RPS/D/T-160
127x 76.2x 34.6mm
(5" x3")



▲ RPS-300
127x 76.2x 35mm
(5" x3")



Under Development

▲ RPS-400
127x 76.2x 35mm
(5" x3")

■ 75W: Single Output – Class I

| Model No. | Output (Rated/Peak) | Effi. |
|------------|---------------------|-------|
| RPS-75-3.3 | 3.3V, 15A / 20A | 73% |
| RPS-75-5 | 5V, 14A / 18.7A | 78% |
| RPS-75-12 | 12V, 6.3A / 8.3A | 82% |
| RPS-75-15 | 15V, 5A / 6.7A | 83% |
| RPS-75-24 | 24V, 3.2A / 4.2A | 85% |
| RPS-75-36 | 36V, 2.1A / 2.8A | 86% |
| RPS-75-48 | 48V, 1.6A / 2.1A | 86% |

■ 75W: Dual Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|---------------|-------|------|
| RPD-75A | 5V, 1.0~9.5A | 77% | 96W |
| | 12V, 0.3~4.0A | | |
| RPD-75B | 5V, 1.0~6.8A | 79% | 99W |
| | 24V, 0.2~2.7A | | |

■ 75W: Triple Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|----------------|-------|------|
| RPT-75A | 5V, 0.6~8.0A | 76% | 93W |
| | 12V, 0.2~4.0A | | |
| | -5V, 0.1~1.0A | | |
| RPT-75B | 5V, 0.6~8.0A | 77% | 100W |
| | 12V, 0.2~4.0A | | |
| | -12V, 0.1~1.0A | | |
| RPT-75C | 5V, 0.6~8.0A | 77% | 100W |
| | 15V, 0.1~3.0A | | |
| | -15V, 0.1~1.0A | | |
| RPT-75D | 5V, 0.6~7.0A | 79% | 95W |
| | 24V, 0.1~2.0A | | |
| | 12V, 0.1~1.0A | | |
| RPT-7503 | 3.3V, 0.7~7.0A | 74% | 81W |
| | 5V, 0.0~8.0A | | |
| | 12V, 0.0~1.5A | | |

■ 160W: Single Output – Class I

| Model No. | Output (Convection/20.5CFM) | Effi. |
|-------------|-----------------------------|-------|
| RPS□-160-5 | 5V, 20A / 30A | 85% |
| RPS□-160-12 | 12V, 9.1A / 12.9A | 87% |
| RPS□-160-15 | 15V, 7.3A / 10.3A | 87% |
| RPS□-160-24 | 24V, 4.6A / 6.5A | 87% |
| RPS□-160-48 | 48V, 2.3A / 3.25A | 88% |

□ = blank, G; blank: basic function,
G: with 5Vsb/0.8A & no load power consumption < 0.75W

■ 160W: Dual Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|---------------|-------|------|
| RPD□-160B | 5V, 1.0~12A | 84% | 150W |
| | 24V, 0.2~3.6A | | |

□ = blank, G; blank: basic function,
G: with 5Vsb/0.8A & no load power consumption < 0.75W

■ 160W: Triple Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|----------------|-------|------|
| RPT□-160A | 5V, 0.6~14A | 84% | 145W |
| | 12V, 0.2~5.5A | | |
| | -5V, 0.1~1.0A | | |
| RPT□-160B | 5V, 0.6~14A | 84% | 146W |
| | 12V, 0.2~5.0A | | |
| | -12V, 0.1~1.0A | | |
| RPT□-160C | 5V, 0.6~14A | 83% | 143W |
| | 15V, 0.1~3.6A | | |
| | -15V, 0.1~1.0A | | |
| RPT□-160D | 5V, 0.3~11A | 83% | 148W |
| | 12V, 0.2~5.0A | | |
| | 24V, 0.15~1.2A | | |

□ = blank, G; blank: basic function,
G: with 5Vsb/0.8A & no load power consumption < 0.75W

■ 300W: Single Output – Class I

| Model No. | Output (Convection/20.5CFM) | Effi. |
|------------|-----------------------------|-------|
| RPS-300-12 | 12V, 16.67A / 25A | 90.0% |
| RPS-300-15 | 15V, 13.33A / 20A | 90.0% |
| RPS-300-24 | 24V, 8.33A / 12.5A | 92.5% |
| RPS-300-27 | 27V, 7.4A / 11.12A | 93.0% |
| RPS-300-48 | 48V, 4.17A / 6.25A | 93.0% |

■ 400W: Single Output – Class I

| Model No. | Output (Convection/25CFM) | Effi. |
|------------|---------------------------|-------|
| RPS-400-12 | 12V, 20.8A / 33.3A | 92.0% |
| RPS-400-15 | 15V, 16.7A / 26.7A | 92.0% |
| RPS-400-24 | 24V, 10.5A / 16.7A | 93.0% |
| RPS-400-27 | 27V, 9.3A / 14.9A | 93.0% |
| RPS-400-36 | 36V, 7A / 11.2A | 93.0% |
| RPS-400-48 | 48V, 5.3A / 8.4A | 94.0% |



▲ MPS-30
101.6x 65.8x 23.5mm
(4" x2.6")



▲ MPS/D/T-45
127x 76x 28mm
(5" x3")



▲ MPS/D/T-65
127x 76x 42mm
(5" x3")



▲ MPS/D/T/Q-200
177.8x 107.2x 35.5mm
(7" x4.2")

■ 30W: Single Output – Class I

| Model No. | Output | Effi. |
|-----------|-----------|-------|
| MPS-30-5 | 5V, 5.0A | 72% |
| MPS-30-12 | 12V, 2.5A | 75% |
| MPS-30-15 | 15V, 2.0A | 76% |
| MPS-30-24 | 24V, 1.2A | 77% |
| MPS-30-27 | 27V, 1.1A | 78% |
| MPS-30-48 | 48V, 0.6A | 78% |

■ 45W: Single Output – Class I

| Model No. | Output | Effi. |
|-------------|-------------|-------|
| MPS-45-3.3 | 3.3V, 8.0A | 65% |
| MPS-45-5 | 5V, 8.0A | 72% |
| MPS-45-7.5 | 7.5V, 5.4A | 75% |
| MPS-45-12 | 12V, 3.7A | 76% |
| MPS-45-13.5 | 13.5V, 3.3A | 76% |
| MPS-45-15 | 15V, 3.0A | 77% |
| MPS-45-24 | 24V, 1.9A | 78% |
| MPS-45-27 | 27V, 1.7A | 78% |
| MPS-45-48 | 48V, 1.0A | 78% |

■ 45W: Dual Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|---------------|-------|------|
| MPD-45A | 5V, 0.4~5.0A | 76% | 40W |
| | 12V, 0.2~2.5A | | |
| MPD-45B | 5V, 0.4~5.0A | 78% | 45W |
| | 24V, 0.2~1.8A | | |

■ 45W: Triple Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|----------------|-------|------|
| MPT-45A | 5V, 0.4~5.0A | 73% | 41W |
| | 12V, 0.2~2.5A | | |
| | -5V, 0.0~0.5A | | |
| MPT-45B | 5V, 0.4~5.0A | 75% | 43W |
| | 12V, 0.2~2.5A | | |
| | -12V, 0.0~0.5A | | |
| MPT-45C | 5V, 0.4~5.0A | 75% | 44W |
| | 15V, 0.2~2.3A | | |
| | -15V, 0.0~0.5A | | |

■ 65W: Single Output – Class I

| Model No. | Output | Effi. |
|-------------|-------------|-------|
| MPS-65-3.3 | 3.3V, 12A | 66% |
| MPS-65-5 | 5V, 12A | 74% |
| MPS-65-7.5 | 7.5V, 8.0A | 76% |
| MPS-65-12 | 12V, 5.2A | 77% |
| MPS-65-13.5 | 13.5V, 4.7A | 78% |
| MPS-65-15 | 15V, 4.2A | 79% |
| MPS-65-24 | 24V, 2.7A | 80% |
| MPS-65-27 | 27V, 2.4A | 80% |
| MPS-65-48 | 48V, 1.35A | 80% |

■ 65W: Dual Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|---------------|-------|------|
| MPD-65A | 5V, 0.4~7.0A | 75% | 61W |
| | 12V, 0.2~3.2A | | |
| MPD-65B | 5V, 0.4~6.0A | 78% | 66W |
| | 24V, 0.2~2.6A | | |

■ 65W: Triple Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|----------------|-------|------|
| MPT-65A | 5V, 0.4~7.0A | 74% | 60W |
| | 12V, 0.2~3.2A | | |
| | -5V, 0.0~0.7A | | |
| MPT-65B | 5V, 0.4~7.0A | 74% | 64W |
| | 12V, 0.2~3.2A | | |
| | -12V, 0.0~0.7A | | |
| MPT-65C | 5V, 0.4~7.0A | 74% | 65W |
| | 15V, 0.2~2.6A | | |
| | -15V, 0.0~0.7A | | |

■ 200W: Single Output – Class I

| Model No. | Output (Convection/25CFM) | Effi. |
|-------------|---------------------------|-------|
| MPS-200-3.3 | 3.3V, 28A / 40A | 77% |
| MPS-200-5 | 5V, 28A / 40A | 81% |
| MPS-200-12 | 12V, 11.7A / 16.7A | 84% |
| MPS-200-15 | 15V, 9.4A / 13.4A | 85% |
| MPS-200-24 | 24V, 5.9A / 8.4A | 86% |
| MPS-200-48 | 48V, 3A / 4.2A | 87% |

■ 200W: Dual Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|---------------|-------|------|
| MPD-200A | 5V, 4.0~24A | 82% | 196W |
| | 12V, 0.8~9.6A | | |
| MPD-200B | 5V, 4.0~24A | 83% | 196W |
| | 24V, 0.4~4.8A | | |

■ 200W: Triple Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|----------------|-------|------|
| MPT-200A | 5V, 4.0~24A | 80% | 200W |
| | 12V, 0.8~9.0A | | |
| | -5V, 0.0~2.4A | | |
| MPT-200B | 5V, 4.0~24A | 80% | 196W |
| | 12V, 0.6~7.2A | | |
| | -12V, 0.0~2.4A | | |
| MPT-200C | 5V, 4.0~24A | 80% | 201W |
| | 15V, 0.5~5.6A | | |
| | -15V, 0.0~2.4A | | |
| MPT-200D | 5V, 4.0~24A | 81% | 196W |
| | 24V, 0.3~3.6A | | |
| | 12V, 0.0~2.4A | | |

■ 200W: Quad Output – Class I

| Model No. | Output | Effi. | Max. |
|-----------|----------------|-------|------|
| MPQ-200B | 5V, 3.0~18A | 78% | 193W |
| | 12V, 0.7~8.4A | | |
| | -5V, 0.0~2.4A | | |
| | -12V, 0.0~2.4A | | |
| MPQ-200C | 5V, 3.0~18A | 78% | 190W |
| | 15V, 0.5~6.0A | | |
| | -5V, 0.0~2.4A | | |
| | -15V, 0.0~2.4A | | |
| MPQ-200D | 5V, 3.0~18A | 79% | 195W |
| | 24V, 0.3~3.6A | | |
| | 12V, 0.0~2.4A | | |
| | -12V, 0.0~2.4A | | |
| MPQ-200F | 5V, 3.0~18A | 81% | 200W |
| | 24V, 0.3~3.3A | | |
| | 15V, 0.0~2.4A | | |
| | -15V, 0.0~2.4A | | |

On Board Type 5~20W



Features

- Small **PCB mount** models
- Output voltage from 3.3V to 24V available
- Medical safety approved (**2xMOPP**)
- Suitable for **BF application** with appropriate system consideration
- Class II power unit (class I for 20W)
- Low leakage current $300\mu\text{A}$ for 20W
- No load power consumption 0.5W (0.75W for PM/NFM-20)
- 3 years warranty





▲ PM-05
62.85x 50x 19.7mm



▲ PM-10
70x 50x 22.7mm



▲ PM-15
75x 53x 22.7mm



▲ PM-20
94x 56x 22.7mm

■ 5W: Single Output – Class II

| Model No. | Output | Effi. |
|-----------|-------------|-------|
| PM-05-3.3 | 3.3V, 1.25A | 67% |
| PM-05-5 | 5V, 1.00A | 71% |
| PM-05-12 | 12V, 0.42A | 73% |
| PM-05-15 | 15V, 0.33A | 74% |
| PM-05-24 | 24V, 0.23A | 76% |

■ 15W: Single Output – Class II

| Model No. | Output | Effi. |
|-----------|-------------|-------|
| PM-15-3.3 | 3.3V, 3.50A | 73% |
| PM-15-5 | 5V, 3.00A | 76% |
| PM-15-12 | 12V, 1.25A | 78% |
| PM-15-15 | 15V, 1.00A | 79% |
| PM-15-24 | 24V, 0.63A | 81% |

■ 10W: Single Output – Class II

| Model No. | Output | Effi. |
|-----------|-------------|-------|
| PM-10-3.3 | 3.3V, 2.50A | 66% |
| PM-10-5 | 5V, 2.00A | 74% |
| PM-10-12 | 12V, 0.85A | 78% |
| PM-10-15 | 15V, 0.67A | 79% |
| PM-10-24 | 24V, 0.42A | 79% |

■ 20W: Single Output – Class I

| Model No. | Output | Effi. |
|-----------|-------------|-------|
| PM-20-3.3 | 3.3V, 4.50A | 71% |
| PM-20-5 | 5V, 4.40A | 75% |
| PM-20-12 | 12V, 1.80A | 81% |
| PM-20-15 | 15V, 1.40A | 83% |
| PM-20-24 | 24V, 0.92A | 84% |

■ Mechanical Specification for PM Series

| PM-05 / 10 / 15 Series | | | | PM-20 Series | |
|------------------------|----------|------------------|------------------|------------------|--|
| | | 5W | 10W | | |
| | A | 2.475" (62.85mm) | 2.76" (70mm) | 2.95" (75mm) | |
| | B | 1.85" (47mm) | 2.13" (54mm) | 2.441" (62mm) | |
| | C | 0.306" (7.8mm) | 0.315" (8mm) | 0.256" (6.5mm) | |
| | D | 1.97" (50mm) | 1.97" (50mm) | 2.09" (53mm) | |
| | E | 0.689" (17.5mm) | 0.689" (17.5mm) | 0.788" (20mm) | |
| | F | 0.295" (7.5mm) | 0.295" (7.5mm) | 0.256" (6.5mm) | |
| | G | 0.789" (20.04mm) | 0.789" (20.04mm) | 0.906" (23.01mm) | |
| | H | 0.59" (15mm) | 0.59" (15mm) | 0.59" (15mm) | |
| | I | 0.776" (19.7mm) | 0.89" (22.7mm) | 0.89" (22.7mm) | |

■ On Board Type 5~20W



▲ NFM-05
57.9x 45x 19.1mm



▲ NFM-10
65x 45x 22mm



▲ NFM-15
69.85x 48x 22mm



▲ NFM-20
88.9x 50.8x 19.3mm

■ 5W: Single Output – Class II

| Model No. | Output | Effi. |
|------------|-------------|-------|
| NFM-05-3.3 | 3.3V, 1.25A | 67% |
| NFM-05-5 | 5V, 1.00A | 71% |
| NFM-05-12 | 12V, 0.42A | 73% |
| NFM-05-15 | 15V, 0.33A | 74% |
| NFM-05-24 | 24V, 0.23A | 76% |

■ 15W: Single Output – Class II

| Model No. | Output | Effi. |
|------------|-------------|-------|
| NFM-15-3.3 | 3.3V, 3.50A | 73% |
| NFM-15-5 | 5V, 3.00A | 76% |
| NFM-15-12 | 12V, 1.25A | 78% |
| NFM-15-15 | 15V, 1.00A | 79% |
| NFM-15-24 | 24V, 0.63A | 81% |

■ 10W: Single Output – Class II

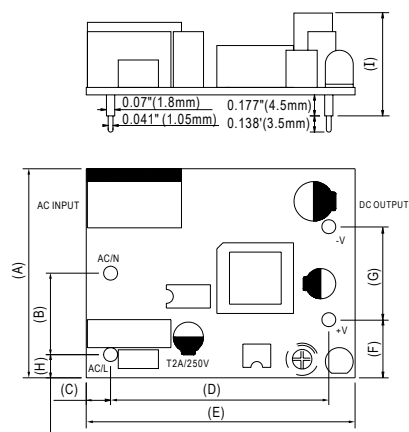
| Model No. | Output | Effi. |
|------------|-------------|-------|
| NFM-10-3.3 | 3.3V, 2.50A | 66% |
| NFM-10-5 | 5V, 2.00A | 74% |
| NFM-10-12 | 12V, 0.85A | 78% |
| NFM-10-15 | 15V, 0.67A | 79% |
| NFM-10-24 | 24V, 0.42A | 79% |

■ 20W: Single Output – Class I

| Model No. | Output | Effi. |
|------------|-------------|-------|
| NFM-20-3.3 | 3.3V, 4.50A | 71% |
| NFM-20-5 | 5V, 4.40A | 75% |
| NFM-20-12 | 12V, 1.80A | 81% |
| NFM-20-15 | 15V, 1.40A | 83% |
| NFM-20-24 | 24V, 0.92A | 84% |

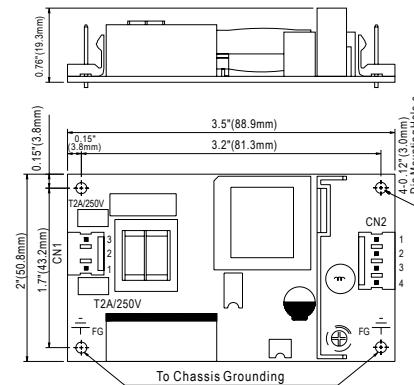
■ Mechanical Specification for NFM Series

NFM-05/10/15 Series



| | 5W | 10W | 15W |
|---|------------------|------------------|------------------|
| A | 1.77" (45mm) | 1.77" (45mm) | 1.89" (48mm) |
| B | 0.689" (17.5mm) | 0.689" (17.5mm) | 0.788" (20mm) |
| C | 0.21" (5.33mm) | 0.22" (5.5mm) | 0.157" (4mm) |
| D | 1.85" (47mm) | 2.13" (54mm) | 2.441" (62mm) |
| E | 2.28" (57.9mm) | 2.56" (65mm) | 2.75" (69.85mm) |
| F | 0.491" (12.47mm) | 0.491" (12.47mm) | 0.492" (12.5mm) |
| G | 0.789" (20.04mm) | 0.789" (20.04mm) | 0.906" (23.01mm) |
| H | 0.196" (5mm) | 0.196" (5mm) | 0.157" (4mm) |
| I | 0.75" (19.1mm) | 0.87" (22mm) | 0.87" (22mm) |

NFM-20 Series



Enclosed Type 100~600W



Features

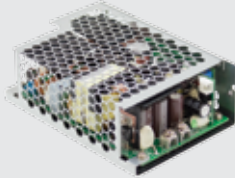
- Medical safety approved
(2xMOPP for RPS-C series, MOOP level for MSP series)
- Suitable for BF application with appropriate system consideration (RPS-C series)
- Output voltage from 3.3V to 48V available
- Class I power unit
- 1U low profile(except for MSP-600)
- Low leakage current <math><100\sim 450\mu\text{A}</math>
- No load power consumption <math><0.3\sim 0.8\text{W}</math>
- Built-in remote ON/OFF , remote sense, current sharing , 5V standby output , 12V auxiliary output, DC OK signal for selected models
- -40~ +70°C wide operating temperature
- 5 years warranty for MSP series , 3 years warranty for RPS-C series



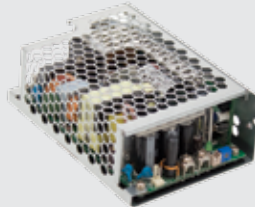
■ Enclosed Type 100~600W



▲ RPS-120/200-x-C
103.4x 62x 40mm



▲ RPS-300-x-C
130x 86.4x 43mm



▲ RPS-400-x-C
130x 86.6x 43mm



▲ RPS-400-x-TF
130x 86.6x 66.5mm



▲ RPS-400-x-SF
151x 86.6x 43mm

Under Development

Under Development

Under Development

Under Development

■ 120W: Single Output – Class I or II

| Model No. | Output (Convection/10CFM) | Effi. |
|--------------|---------------------------|-------|
| RPS-120-12-C | 12V, 7A / 10A | 88.0% |
| RPS-120-15-C | 15V, 5.6A / 8A | 88.5% |
| RPS-120-24-C | 24V, 3.5A / 5A | 90.0% |
| RPS-120-27-C | 27V, 3.15A / 4.5A | 90.0% |
| RPS-120-48-C | 48V, 1.75A / 2.5A | 91.0% |

■ 300W: Single Output – Class I

| Model No. | Output (Convection/20.5CFM) | Effi. |
|--------------|-----------------------------|-------|
| RPS-300-12-C | 12V, 16.67A / 25A | 90.0% |
| RPS-300-15-C | 15V, 13.33A / 20A | 90.0% |
| RPS-300-24-C | 24V, 8.33A / 12.5A | 92.5% |
| RPS-300-27-C | 27V, 7.4A / 11.12A | 93.0% |
| RPS-300-48-C | 48V, 4.17A / 6.25A | 93.0% |

■ 200W: Single Output – Class I or II

| Model No. | Output (Convection/20.5CFM) | Effi. |
|--------------|-----------------------------|-------|
| RPS-200-12-C | 12V, 11.7A / 16.7A | 92.0% |
| RPS-200-15-C | 15V, 9.4A / 13.4A | 92.0% |
| RPS-200-24-C | 24V, 5.9A / 8.4A | 93.0% |
| RPS-200-27-C | 27V, 5.3A / 7.5A | 93.0% |
| RPS-200-48-C | 48V, 3A / 4.2A | 94.0% |

■ 400W: Single Output – Class I

| Model No. | Output (Convection/with Fan) | Effi. |
|-------------|------------------------------|-------|
| RPS-400-12□ | 12V, 20.8A / 33.3A | 92.0% |
| RPS-400-15□ | 15V, 16.7A / 26.7A | 92.0% |
| RPS-400-24□ | 24V, 10.5A / 16.7A | 93.0% |
| RPS-400-27□ | 27V, 9.3A / 14.9A | 93.0% |
| RPS-400-36□ | 36V, 7A / 11.2A | 93.0% |
| RPS-400-48□ | 48V, 5.3A / 8.4A | 94.0% |

□ = -C, -TF, -SF; -C: Enclosed type,
-SF: Side fan with cover, -TF: Top fan with cover

| | RPS-400-C | RPS-400-TF | RPS-400-SF |
|------------------|-----------|------------|------------|
| Without Fan Watt | 250W | --- | --- |
| With Fan Watt | 400W | 400W | 400W |
| Case Drawing | | | |



▲ MSP-100
159x 97x 38mm



▲ MSP-200
199x 98x 38mm



▲ MSP-300
199x 105x 41mm



▲ MSP-450
218x 105x 41mm



▲ MSP-600
218x 105x 63.5mm

■ 100W: Single Output – Class I

| Model No. | Output | Effi. |
|-------------|-------------|-------|
| MSP-100-3.3 | 3.3V, 20A | 78.0% |
| MSP-100-5 | 5V, 17A | 83.0% |
| MSP-100-7.5 | 7.5V, 13.5A | 84.0% |
| MSP-100-12 | 12V, 8.5A | 87.5% |
| MSP-100-15 | 15V, 7A | 88.0% |
| MSP-100-24 | 24V, 4.5A | 88.5% |
| MSP-100-36 | 36V, 2.9A | 89.0% |
| MSP-100-48 | 48V, 2.2A | 90.0% |

■ 450W: Single Output – Class I

| Model No. | Output | Effi. |
|-------------|------------|-------|
| MSP-450-3.3 | 3.3V, 90A | 80.0% |
| MSP-450-5 | 5V, 90A | 83.0% |
| MSP-450-7.5 | 7.5V, 60A | 86.5% |
| MSP-450-12 | 12V, 37.5A | 88.0% |
| MSP-450-15 | 15V, 30A | 89.0% |
| MSP-450-24 | 24V, 18.8A | 88.0% |
| MSP-450-36 | 36V, 12.5A | 89.0% |
| MSP-450-48 | 48V, 9.5A | 89.5% |

■ 200W: Single Output – Class I

| Model No. | Output | Effi. |
|-------------|-------------|-------|
| MSP-200-3.3 | 3.3V, 40A | 80.0% |
| MSP-200-5 | 5V, 35A | 84.0% |
| MSP-200-7.5 | 7.5V, 26.7A | 86.0% |
| MSP-200-12 | 12V, 16.7A | 88.0% |
| MSP-200-15 | 15V, 13.4A | 88.0% |
| MSP-200-24 | 24V, 8.4A | 88.0% |
| MSP-200-36 | 36V, 5.7A | 89.0% |
| MSP-200-48 | 48V, 4.3A | 89.0% |

■ 600W: Single Output – Class I

| Model No. | Output | Effi. |
|-------------|------------|-------|
| MSP-600-3.3 | 3.3V, 120A | 78.5% |
| MSP-600-5 | 5V, 120A | 82.0% |
| MSP-600-7.5 | 7.5V, 80A | 86.0% |
| MSP-600-12 | 12V, 53A | 88.0% |
| MSP-600-15 | 15V, 43A | 88.0% |
| MSP-600-24 | 24V, 27A | 88.0% |
| MSP-600-36 | 36V, 17.5A | 89.0% |
| MSP-600-48 | 48V, 13A | 89.0% |















■ 300W: Single Output – Class I




















| Model No. | Output | Effi. |
|-------------|-----------|-------|
| MSP-300-3.3 | 3.3V, 60A | 80.0% |
| MSP-300-5 | 5V, 60A | 82.0% |
| MSP-300-7.5 | 7.5V, 40A | 86.0% |
| MSP-300-12 | 12V, 27A | 88.0% |
| MSP-300-15 | 15V, 22A | 88.0% |
| MSP-300-24 | 24V, 14A | 87.0% |
| MSP-300-36 | 36V, 9A | 88.0% |
| MSP-300-48 | 48V, 7A | 89.0% |

Selection Guide

External Adaptor · Enclosed · Open Frame · On Board Type

* under development

| Category | Type | Picture | Model | Rated Power (W) | | Input Voltage (VAC) | Output Voltage (VDC) | Dimension (mm) | Insulation | Key Features |
|------------------|---|--|----------|--------------------|---------------|---------------------------------|-------------------------------|--------------------|--|---|
| | | | | Fan | No Fan | | | | | |
| External Adaptor | Interchangeable Type |  | GEM18I | - | 18 | 80~264 | 5, 9, 12, 15, 18, 24, 48 | 75.5 x 39.1 x 56.2 | Class II |    (GSM06, GSM18~36 5~9V for Level V) |
| | Wall-mounted |  | GSM06U/E | - | 6 | | 5, 6, 7.5, 9, 12, 15, 18, 24 | 66 x 32 x 42.5 | | |
| | |  | GSM18U/E | - | 18 | | 5, 7.5, 9, 12, 15, 18, 24, 48 | 79 x 54 x 33 | | |
| | | | GSM25U/E | - | 25 | | | | | |
| | | | GSM36U/E | - | 36 | | | | | |
| | Desktop |  | GSM18B | - | 18 | 80~264 | 5, 7.5, 9, 12, 15, 18, 24, 48 | 79 x 54 x 33 | A Type: Class I |   (except for A Type) |
| | | | GSM25B | - | 25 | | | | | |
| | | | GSM36B | - | 36 | | | | | |
| | | | GSM40A | - | 40 | 80~264 | 12, 15, 19, 24, 48 | 125 x 50 x 31.5 | B Type: Class II |  (GSM18~60 5~9V for Level V) |
| | | | GSM40B | - | | | | | | |
| | | | GSM60A | - | 60 | | | | | |
| | | | GSM60B | - | 60 | | | | | |
| | | | GSM90A | - | 90 | | | 12, 15, 19, 24, 48 | 145 x 60 x 32 | |
| | | | GSM90B | - | | | | | | |
| | | | GSM120A | - | 120 | | | 12, 15, 20, 24, 48 | 167 x 67 x 35 | |
| | | | GSM120B | - | | | | | | |
| | | | GSM160A | - | 160 | | | 12, 15, 20, 24, 48 | 175 x 72 x 35 | |
| | | | GSM160B | - | | | | | | |
| | GSM220A | - | 220 | 12, 15, 20, 24, 48 | 210 x 85 x 46 | | | | | |
| | GSM220B | - | | | | | | | | |
| Enclosed |  | RPS-120-x-C | 120 | 90 | 80~264 | | | 12, 15, 24, 27, 48 | 103.4 x 62 x 40 | Class I |
| | | RPS-200-x-C | 200 | 140 | | 130 x 86.4 x 43 | | | | |
| | | RPS-300-x-C* | 300 | 200 | 90~264 | 130 x 86.6 x 43 | | | | |
| | | RPS-400-x-C* | 400 | 250 | 80~264 | 130 x 86.6 x 66.5 | | | | |
| | | RPS-400-x-TF* | 400 | - | | 151 x 86.6 x 43 | | | | |
| | | RPS-400-x-SF* | 400 | - | | | | | | |
| |  | MSP-100 | - | 100 | 85~264 | 3.3, 5, 7.5, 12, 15, 24, 36, 48 | 159 x 97 x 38 | Class I |   | |
| | | MSP-200 | - | 200 | | | 199 x 98 x 38 | | | |
| | | MSP-300 | 300 | - | | | 199 x 105 x 41 | | | |
| | | MSP-450 | 450 | - | | | 218 x 105 x 41 | | | |
| | | MSP-600 | 600 | - | | | 218 x 105 x 63.5 | | | |

| Category | Type | Picture | Model | Rated Power (W) | | Input Voltage (VAC) | Output Voltage (VDC) | Dimension (mm) | Insulation | Key Features | |
|------------|----------|---|----------|---|--------------------|---------------------|---------------------------------------|---|---|---|--|
| | | | | Fan | No Fan | | | | | | |
| Open Frame | PCB |  | RPS-30 | - | 30 | 80~264 | 3.3, 5, 7.5, 12, 15, 24, 48 | 76.2 x 50.8 x 24 (3" x 2") |  Class II |   (except for RPS/D/T-75) | |
| | | | RPS-45 | - | 45 | | | | | | |
| | | | RPS-65 | - | 65 | | | | | | |
| | | | RPS-60 | - | 60 | 90~264 | 3.3, 5, 12, 15, 24, 48 | 101.6 x 50.8 x 29 (4" x 2") |  Class I | | |
| | | | RPS-120 | 120 | 84 | 80~264 | 12, 15, 24, 27, 48 | |  Class II | | |
| | | | RPS-200 | 200 | 140 | | 90~264 | 3.3, 5, 12, 15, 24, 36, 48 | 127 x 76.2 x 31 (5" x 3") | |  Class I |
| | | | RPS-160 | 160 | 110 | 5, 12, 15, 24, 48 | | 127 x 76.2 x 34.6 (5" x 3") | | | |
| | | | RPS-300 | 300 | 200 | 12, 15, 24, 27, 48 | | 127 x 76.2 x 35 (5" x 3") | | | |
| | | | RPS-400 | 400 | 250 | 80~264 | 12, 15, 24, 27, 36, 48 | 101.6 x 50.8 x 29 (4" x 2") |  Class I | | |
| | | | RPD-60 | - | 60 | 90~264 | 5 / 12, 5 / 24 | | | | 127 x 76.2 x 31 (5" x 3") |
| | | | RPD-75 | 100 | 75 | | 5 / 24 | | | | 127 x 76.2 x 34.6 (5" x 3") |
| | | | RPD-160 | 150 | 100 | | 5 / 24 | 101.6 x 50.8 x 29 (4" x 2") | | | |
| | | | RPT-60 | - | 60 | 90~264 | 33, ±5, ±12, ±15, 24 | 127 x 76.2 x 31 (5" x 3") |  Class I | | |
| | | | RPT-75 | 100 | 75 | | ±5, ±12, ±15, 24 | 127 x 76.2 x 34.6 (5" x 3") | | | |
| | | | RPT-160 | 150 | 100 | | ±5, ±12, ±15, 24 | 127 x 76.2 x 34.6 (5" x 3") | | | |
| | | | On Board |  | MPS-30 | - | 30 | 88~264 | 5, 12, 15, 24, 27, 48 | | 101.6 x 65.8 x 23.5 (4" x 2.6") |
| | MPS-45 | - | | | 45 | 90~264 | 3.3, 5, 7.5, 12, 13.5, 15, 24, 27, 48 | 127 x 76 x 28 (5" x 3") | | | |
| | MPS-65 | - | | | 65 | | | 127 x 76 x 42 (5" x 3") | | | |
| | MPS-200 | 200 | | | 140 | | | 3.3, 5, 12, 15, 24, 48 | 177.8 x 107.2 x 35.5 (7" x 4.2") | | |
| | MPD-45 | - | | | 45 | 90~264 | 5 / 12, 5 / 24 | 127 x 76 x 28 (5" x 3") |  Class I | | |
| | MPD-65 | - | | | 65 | | | 127 x 76 x 42 (5" x 3") | | | |
| | MPD-200 | 200 | | | 140 | | | 177.8 x 107.2 x 35.5 (7" x 4.2") | | | |
| | MPT-45 | - | | | 45 | 90~264 | ±5, ±12, ±15 | 127 x 76 x 28 (5" x 3") |  Class I | | |
| | MPT-65 | - | | | 65 | | | 127 x 76 x 42 (5" x 3") | | | |
| | MPT-200 | 200 | | | 140 | | | ±5, ±12, ±15, 24 | | 177.8 x 107.2 x 35.5 (7" x 4.2") | |
| | MPQ-200 | 200 | | | 140 | 90~264 | ±5, ±12, ±15, 24 | 177.8 x 107.2 x 35.5 (7" x 4.2") |  Class I | | |
| | On Board |  | PM-05 | - | 5 | 85~264 | 3.3, 5, 12, 15, 24 | 62.85 x 50 x 19.7 |  Class II |   | |
| PM-10 | | | - | 10 | 70 x 50 x 22.7 | | | | | | |
| PM-15 | | | - | 15 | 75 x 53 x 22.7 | | | | | | |
| PM-20 | | | - | 20 | 94 x 56 x 22.7 | | | | | | |
| NFM-05 | | | - | 5 | 57.9 x 45 x 19.1 | | |  Class II | | | |
| NFM-10 | | | - | 10 | 65 x 45 x 22 | | | | | | |
| NFM-15 | | | - | 15 | 69.8 x 48 x 22 | | | | | | |
| NFM-20 | | | - | 20 | 88.9 x 50.8 x 19.3 | | | | | |  Class I |

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