MEAN WELL

Your Reliable Power Partner

Medical Power Supply

AC/DC Switching Power Supplies

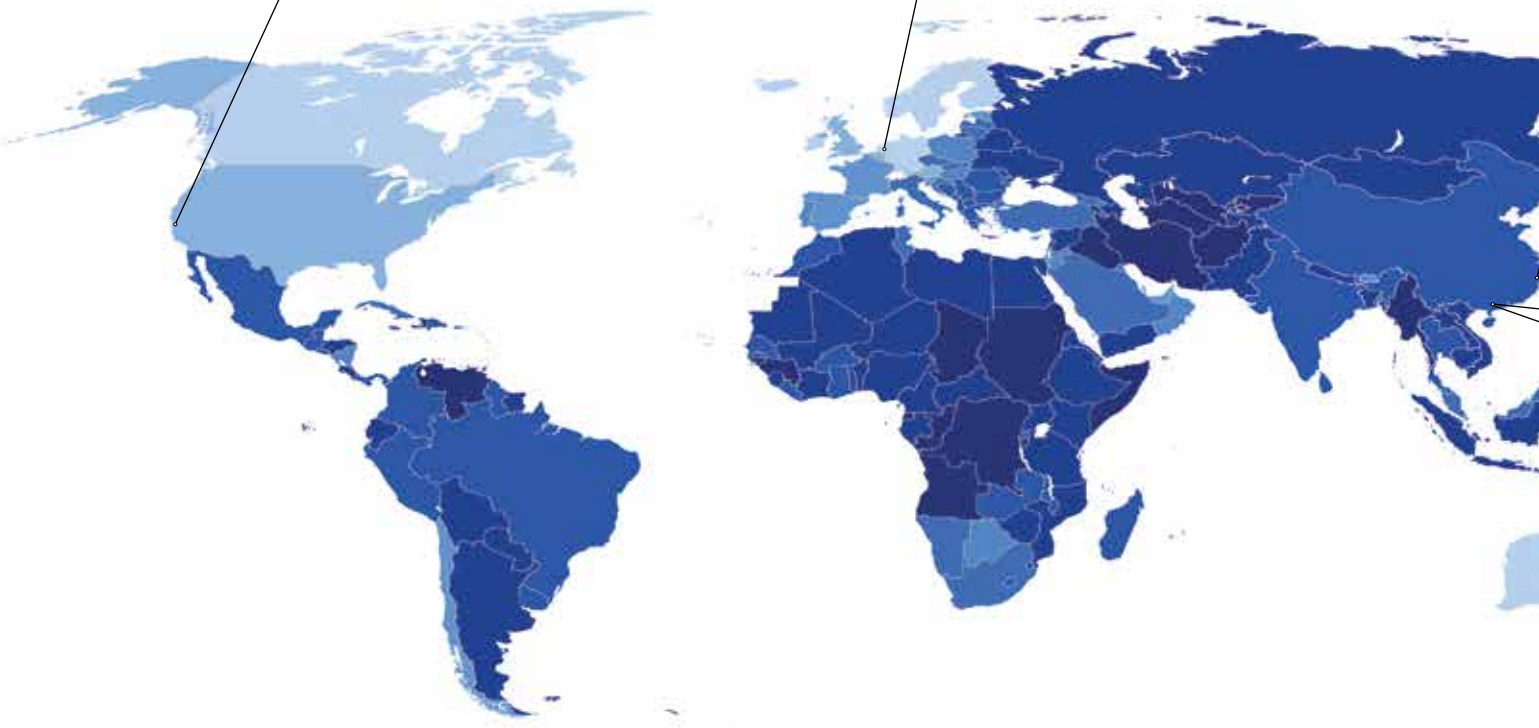
Company Profile

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

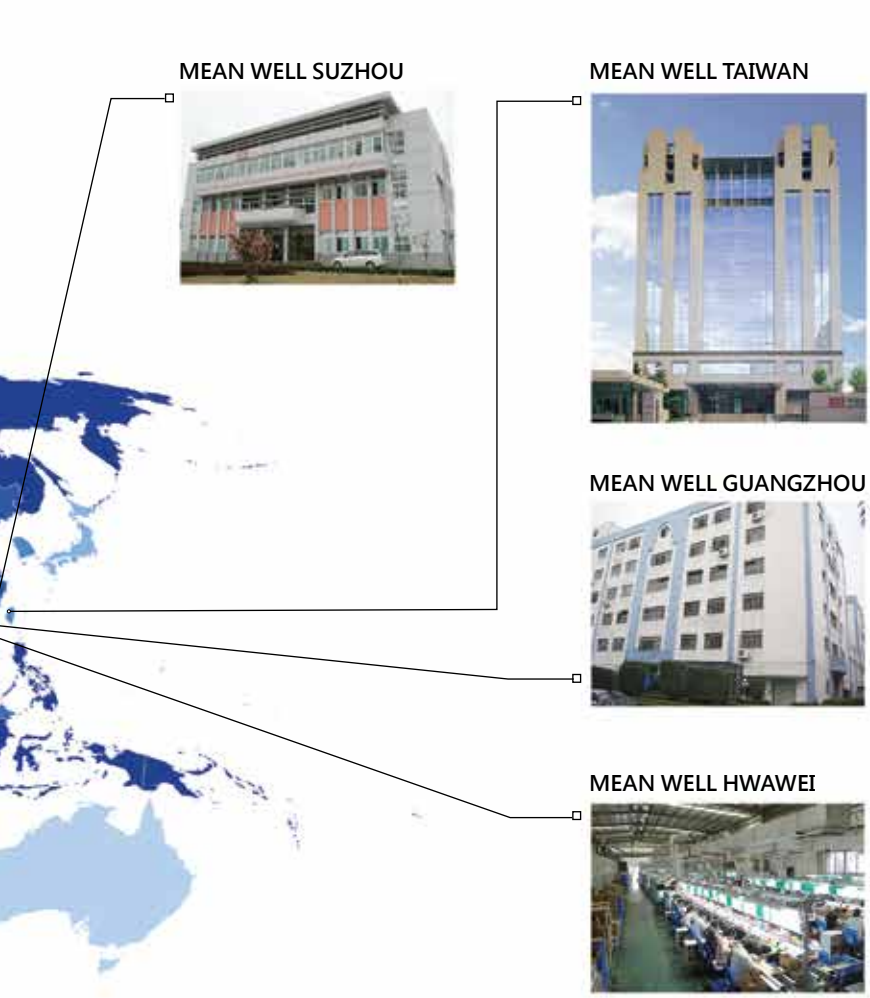


The whole product line has supplied more than 70 series and 400 models in total for customers to choose and has devoted to develop green medical power supplies, thus unveils the energy-saving medical power supplies in compliance with DoE Level VI.

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!



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

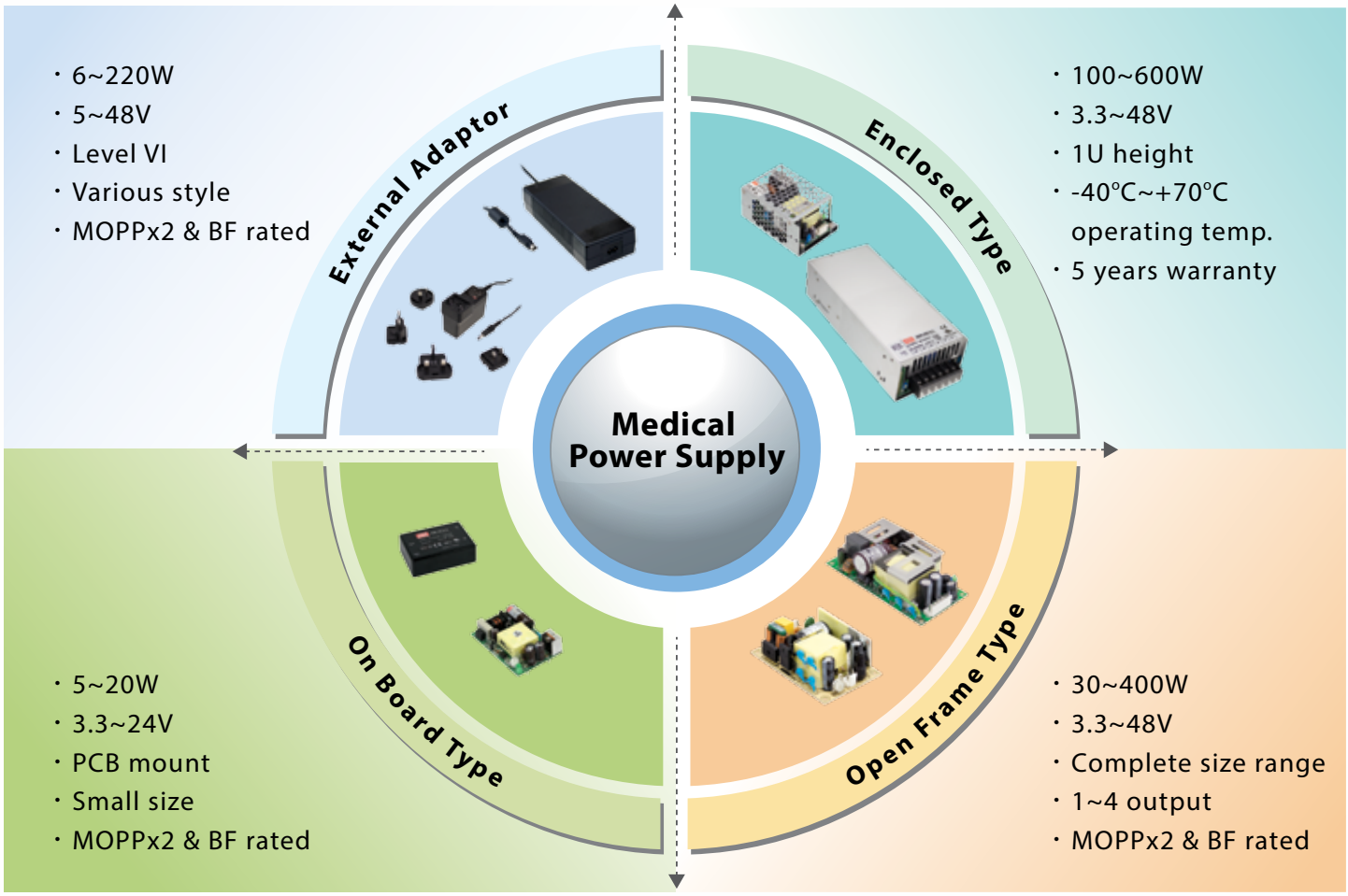
ISO14000

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



- 6~220W
- 5~48V
- Level VI
- Various style
- MOPPx2 & BF rated

- 100~600W
- 3.3~48V
- 1U height
- -40°C~+70°C operating temp.
- 5 years warranty

- 5~20W
- 3.3~24V
- PCB mount
- Small size
- MOPPx2 & BF rated

- 30~400W
- 3.3~48V
- Complete size range
- 1~4 output
- MOPPx2 & BF rated

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.

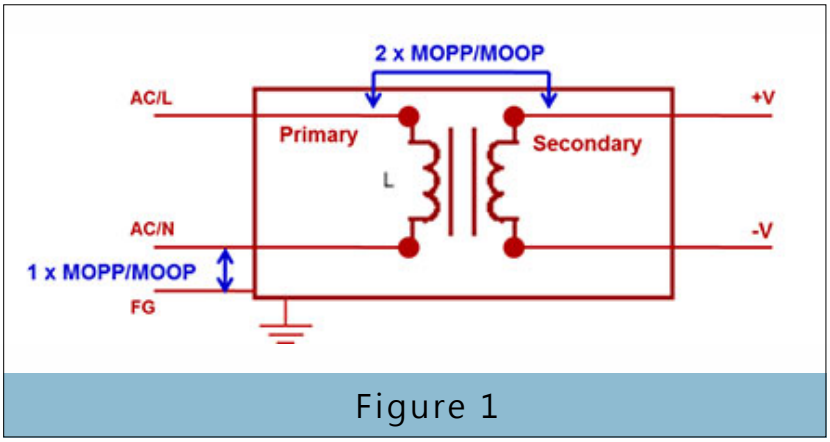


Figure 1

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<50~100μA
- No load power consumption<0.075~0.15W
- 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

Class I Class II BF rated 2xMOPP

▲ 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) – 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) – 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) – 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) – 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) – 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

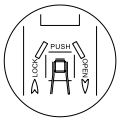
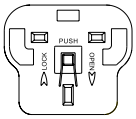
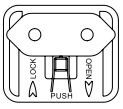
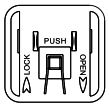
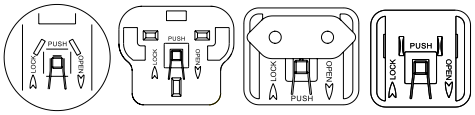
Order No.	Output	Effi.
GSM06☐05-P1J	5V, 1.20A	68%
GSM06☐06-P1J	6V, 1.00A	74%
GSM06☐07-P1J	7.5V, 0.80A	74%
GSM06☐09-P1J	9V, 0.66A	76%
GSM06☐12-P1J	12V, 0.50A	77%
GSM06☐15-P1J	15V, 0.40A	79%
GSM06☐18-P1J	18V, 0.33A	80%
GSM06☐24-P1J	24V, 0.25A	82%

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

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

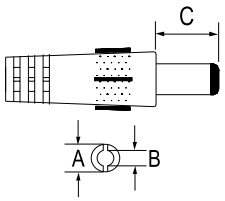
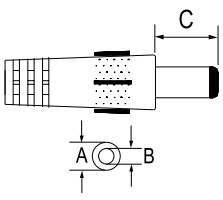
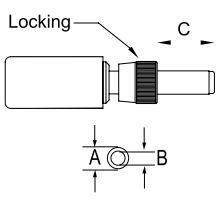
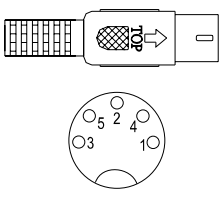
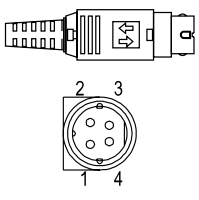
Order No. (main body)	Output	Effi.
GEM18I05-P1J	5V, 3.00A	80%
GEM18I09-P1J	9V, 2.00A	84%
GEM18I12-P1J	12V, 1.50A	84%
GEM18I15-P1J	15V, 1.20A	84%
GEM18I18-P1J	18V, 1.00A	84%
GEM18I24-P1J	24V, 0.75A	85%
GEM18I48-P1J	48V, 0.38A	87%

Interchangeable AC Plug Specifically for GEM18I

	AC Plug Type				Mixed Four Type
	AC Plug-AU2	AC Plug-UK2	AC Plug-EU2	AC Plug-US2	AC Plug-Mix2
AC Plug Order No.					
	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 OD	B ID	C L
P1I	5.5	2.1	9.5
P1J	5.5	2.1	11.0
P1L	5.5	2.5	9.5
P1M	5.5	2.5	11.0

Type	A OD	B ID	C L
P2I	5.5	2.1	9.5
P2J	5.5	2.1	11.0
P2L	5.5	2.5	9.5
P2M	5.5	2.5	11.0

Type	A	B	C
P2S (S761K)	5.53	2.03	12.06

Type	Pin Assignment		
	Single		Triple
R1B	1	COM	COM
	2	COM	COM
	3	Vout	+5V
	4	COM	-Vout
	5	Vout	+Vout

Type	Pin Assignment	
	PIN No.	Output
R7B	1	+Vout
	2	GND
	3	GND
	4	+Vout

Note: Minimum order quantity is varied for different models.

Open Frame Type *30~400W*

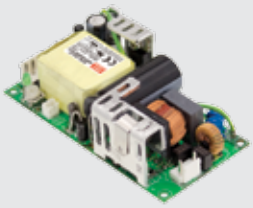
Features

- 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<100~300μA
- No load power consumption<0.1~0.75W
- Remote ON/OFF , remote sense ,
  5V standby output ,12V auxiliary output,
  P.G./P.F. signal for selected models
- 3 years warranty

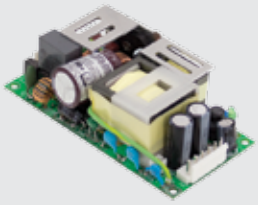
Class I Class II BF rated 2xMOPP

▲ **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")

▲ 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 12V, 0.3~4.0A	77%	96W
RPD-75B	5V, 1.0~6.8A 24V, 0.2~2.7A	79%	99W

75W: Triple Output — Class I

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

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 24V, 0.2~3.6A	84%	150W

□= 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 12V, 0.2~5.5A -5V, 0.1~1.0A	84%	145W
RPT□-160B	5V, 0.6~14A 12V, 0.2~5.0A -12V, 0.1~1.0A	84%	146W
RPT□-160C	5V, 0.6~14A 15V, 0.1~3.6A -15V, 0.1~1.0A	83%	143W
RPT□-160D	5V, 0.3~11A 12V, 0.2~5.0A 24V, 0.15~1.2A	83%	148W

□= 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 12V, 0.2~2.5A	76%	40W
MPD-45B	5V, 0.4~5.0A 24V, 0.2~1.8A	78%	45W

45W: Triple Output — Class I

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

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 12V, 0.2~3.2A	75%	61W
MPD-65B	5V, 0.4~6.0A 24V, 0.2~2.6A	78%	66W

65W: Triple Output — Class I

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

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 12V, 0.8~9.6A	82%	196W
MPD-200B	5V, 4.0~24A 24V, 0.4~4.8A	83%	196W

200W: Triple Output — Class I

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

200W: Quad Output — Class I

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

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<300μA for 20W
- No load power consumption<0.5W (<0.75W for PM/NFM-20)
- 3 years warranty

Class I Class II BF rated 2xMOPP c US CB CE

▲ 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

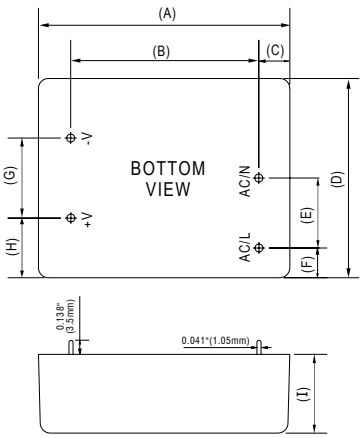
Model No.	Output	Effi.
PM-10-3.3	3.3V, 2.50A	66%
PM-10-5	5V, 2.00A	74%
PM-10-12	12V, 0.85A	78%
PM-10-15	15V, 0.67A	79%
PM-10-24	24V, 0.42A	79%

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%

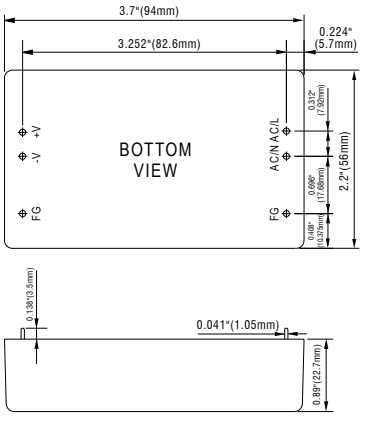
Mechanical Specification for PM Series

PM-05 / 10 / 15 Series



	5W	10W	15W
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)

PM-20 Series



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

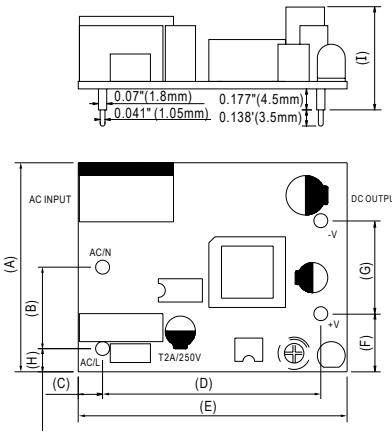
Model No.	Output	Effi.
NFM-10-3.3	3.3V, 2.50A	66%
NFM-10-5	5V, 2.00A	74%
NFM-10-12	12V, 0.85A	78%
NFM-10-15	15V, 0.67A	79%
NFM-10-24	24V, 0.42A	79%

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%

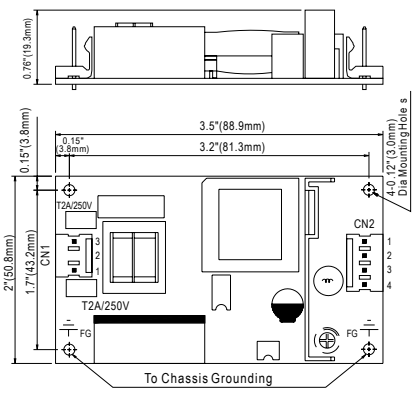
Mechanical Specification for NFM Series

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*

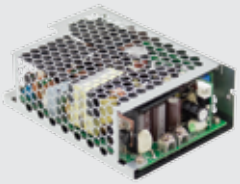
Features

- 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<100~450μA
- No load power consumption<0.3~0.8W
- Built-in remote ON/OFF , remote sense, current sharing , 5V standby output , 12V auxiliary output, DC OK signal for selected models
- -40~+70℃ wide operating temperature
- 5 years warranty for MSP series , 3 years warranty for RPS-C series

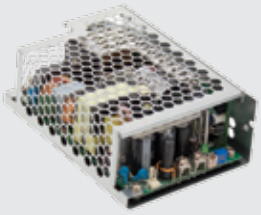
Class I Class II BF rated (RPS-C) 1xMOOP (MSP) 2xMOPP (RPS-C) c US (RPS-C only) CB CE

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

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%

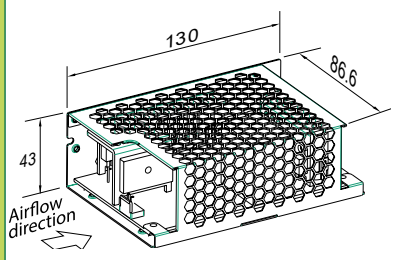
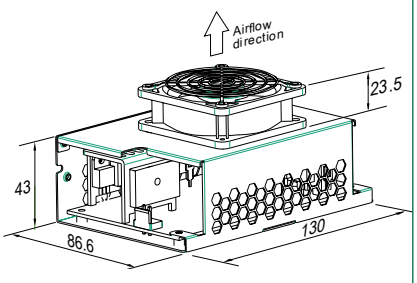
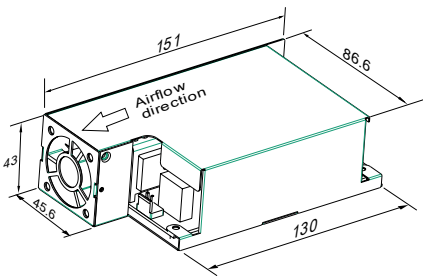
200W: Single Output — Class I or II

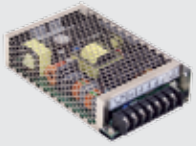
Model No.	Output (Convection/20.5CFM)	Effi.
RPS-200-12-C	12V, 11.7A / 16.7A	92.0%
RPS-200-15-C	15V, 9.4A / 13.4A	92.0%
RPS-200-24-C	24V, 5.9A / 8.4A	93.0%
RPS-200-27-C	27V, 5.3A / 7.5A	93.0%
RPS-200-48-C	48V, 3A / 4.2A	94.0%

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%

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%

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%

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%

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%

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	2xMOPP, BF rated, VI (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, B Type: Class II	2xMOPP, BF rated (except for A Type), VI (GSM18~60 5~9V for Level V)
			GSM25B	-	25					
			GSM36B	-	36					
			GSM40A	-	40			125 x 50 x 31.5		
			GSM40B	-						
			GSM60A	-	60					
			GSM60B	-						
			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			175 x 72 x 35		
			GSM160B	-						
			GSM220A	-	220			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	2xMOPP, BF rated
			RPS-200-x-C	200	140					
			RPS-300-x-C*	300	200	90~264		130 x 86.4 x 43		
			RPS-400-x-C*	400	250	80~264	12 , 15 , 24 , 27 , 36, 48	130 x 86.6x 43		
			RPS-400-x-TF*	400	-			130 x 86.6 x 66.5		
			RPS-400-x-SF*	400	-			151 x 86.6 x 43		
			MSP-100	-	100	85~264	3.3 , 5 , 7.5 , 12 , 15 , 24 , 36 , 48	159 x 97 x 38		1xMOOP, 5 YEARS WARRANTY
			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	2xMOPP BF rated (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					
			RPS-75	100	75	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			
			RPD-60	-	60	90~264	5 / 12 , 5 / 24	101.6 x 50.8 x 29 (4" x 2")		
			RPD-75	100	75			127 x 76.2 x 31 (5" x 3")		
			RPD-160	150	100		5 / 24	127 x 76.2 x 34.6 (5" x 3")		
			RPT-60	-	60		3.3, ±5, ±12, ±15, 24	101.6 x 50.8 x 29 (4" x 2")		
			RPT-75	100	75			127 x 76.2 x 31 (5" x 3")		
			RPT-160	150	100		±5 , ±12 , ±15 , 24	127 x 76.2 x 34.6 (5" x 3")		
			MPS-30	-	30	88~264	5 , 12 , 15 , 24 , 27 , 48	101.6 x 65.8 x 23.5 (4" x 2.6")	Class I	2xMOPP BF rated (MPS/D/T/Q-200 only)
			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		5 / 12 , 5 / 24	127 x 76 x 28 (5" x 3")		
			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		±5 , ±12 , ±15	127 x 76 x 28 (5" x 3")		
			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					
	On Board		PM-05	-	5	85~264	3.3 , 5 , 12 , 15 , 24	62.85 x 50 x 19.7	Class II	2xMOPP BF rated
			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	Class I	
			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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