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# Key Selling Points of NMP Series

- Modular product design, configurable as per customer requirements.
- Plug in NMS-240 / NMD-240 (Dual Output Voltage) DC module cards to configure a multiple output power supply.
- 1U slim mechanical design, fit space constraint instruments or systems.
- Front-end and DC/DC module cards are separately certified by safety agencies. Can be sold separately as components or as assembly of a power supply unit.



Key Selling Points of NMP Series

- Certified by 60601-1 and 62368-2 dual safety standards, comply with 2x MOPP medical insulation regulation
- PV (Programmable Voltage) & PC (Programmable Current) functions (NMS-240 only)
- Comply with SEMI F47 standards for semiconductor manufacturing equipment.
- Intelligent control functions





### NMD-240 Features



- Dual isolated output channels;
- **Independent protection** on both output channels;
- Output voltage is adjustable via separate SVRs;
- Two sets of remote control signals;
- Dual safety certifications: Medical 60601-1 & Industrial 62368-1;
- 2x MOPP medical grade insulation design;
- Bi-color output connector to indicate polarity of output voltage;
- Comply with **SEMI F47** standards for **semiconductor** manufacturing equipment.
- 5-year warranty





| Model No.      | NMD-240 |       |
|----------------|---------|-------|
| Output Channel | V1      | V2    |
| Vo Adj. Range  | 3-30V   | 3-30V |
| lout Max.      | 5A      | 5A    |
| Pout Max.      | 150W    | 150W  |
| Combined Power | 240W    |       |



# Modular Power Supply Design

Fast customization on PSU Configurations/ Electrical Parameters

Add more D/D modules: multiply output power;

D/D modules in Parallel / Series operation: multiply output Current / Voltage;

PV / PC function: adjust output Voltage / Constant Current Limit

Create a multiple output PSU by just plugging in NMS-240 & NMD-240 (Dual Output Voltage) D/D module cards, maximum 12 channels!





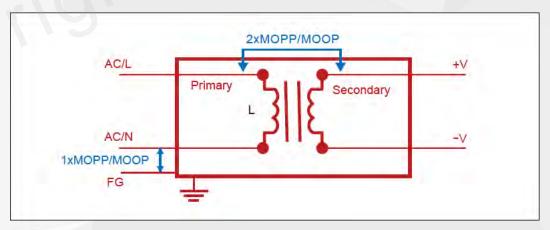
### 1U Slim Mechanical Design

### Concerns Solutions • Limited by old technology on components, Enlarge Power Density of Front-end and Dmodular PSU used to be much bigger in size. D module cards If end system has insufficient inner space, modular PSU can't be applied. • • Use **coolers with higher airflow** to boost heat dissipation for PSU Nowadays, industrial and medical instruments become compact and lighter, thus demands for slim solution is increasing.



### Medical & Industrial Dual Safety

- 62368 -1 Industrial & 60601-1 Medical Dual Safety Certification
   Widest range for product applications
- 2x MOPP Medical Grade Insulation Design (MOPP, Means of Patient Protection)
- Low Touch Current<100uA @264Vac</li>



Effectively protect patients from the risk of fatal electric shock!



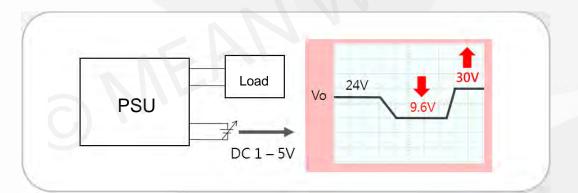
# Programmable Outputs (PV & PC)

Output Voltage and Output current limit can be adjusted!

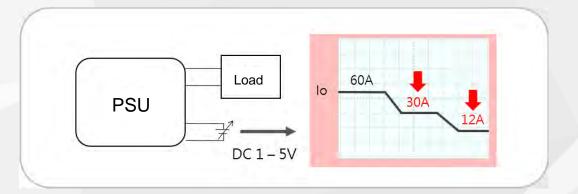
Use external DC signal to control output voltage/current limit.

Fully base on user's need to tune up or down within specification defined.

### Programmable Voltage, PV Function



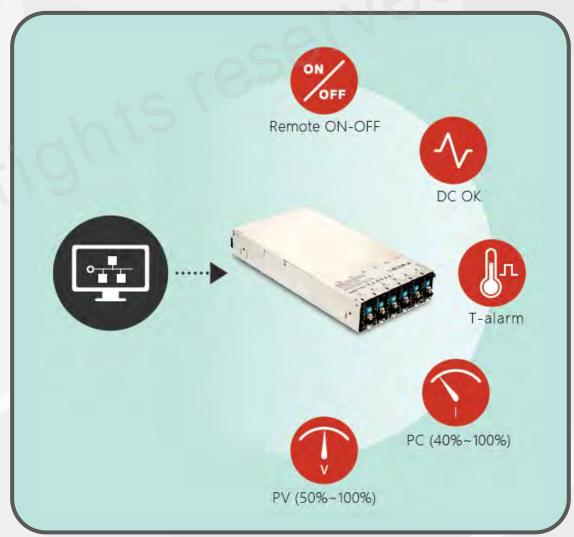
### Programmable Current, PC Function





## Intelligent Control Functions

- Intelligent and Automatic Monitor/Control
  Featured Remote ON/OFF, DC OK, T-alarm
  signal, and programmable output (PV & PC)
  functions to easier monitor and control PSU.
- Remote ON/OFF Signal Turn ON/OFF DC modules all at once or one by one.
- T-alarm signal
  Send over-temperature alert thru TTL signal to avoid system crash due to OTP condition.





### **Applications of NMP Series**

#### Industrial Automation



**3D Printer** 

- Space constraint
- Drive Motor & Control signals



**Energy Storage System** 

- Need multiple output voltages to drive BMS sub-system
- Space constraint in BMS sub-system

#### Medical Equipment



**Medical Instruments** 

- Space constraint
- Need to comply with 60601-1 & 2x MOPP standards



**MRI Scanner** 

- Space constraint
- Drive Motor & Diagnostic Computer

# Why MEAN WELL?





More than 10,000 models, continues to introduce 10% new models and EOL 5% every year





High reliability and quality indicator Post-sales failure rate decreases by 10% each year





High cost-performance products, stable material price, complete supply chain integration



### Delivery -



24-hour delivery for small amount order.

14-day delivery for frequent purchase standard products.





MEAN WELL Group and distributors provide services 24 hours a day, and commit to reply within 24 hours



#### **Reliable Relationship**



75% of revenue come from long-term distributors and customers

