



## Mars Series Modular UPS

20kVA-600kAV 3:3 PF:1.0



### Performance Characteristics

- High efficiency online double conversion technology
- High scalability
- Unity output power factor
- Modular design lowers MTTR
- Ease of installation and maintenance
- Flexible battery configuration adapts different applications
- Adjustable charging current
- High overload capability
- Graphic 5.7" LCD design for easy management
- N+1 or N+X parallel redundancy for power guarantee

### Applied Range

Internet Data Center, Communication System, Financial System, Industrial Automation System, Multimedia Data Center, Government Departments, Medical System, Security System

### Series Overview

Prostra Mars Series Modular UPS employs highly efficient online double conversion technology, achieving an efficiency rate of 94.5%. It is seamlessly integrated with the latest data room designs, providing a highly reliable, redundant, and scalable modular UPS system.

Mars series modular UPS system with extremely flexible architecture, and it's power modules using online hot-swappable design. These can be easily removed, installed, and maintained while the system is running without affecting its operation or output, thus fulfilling investment plans according to requirements. This design not only meets users' future equipment expansion needs but also reduces initial purchase costs.



## Technical Specification

| Model                   |                                  | MPS90K   | MPS120K                 | MPS180K                 | MPS210K  | MPS240K  | MPS300K              | MPS400K        | MPS500K | MPS600K        |  |
|-------------------------|----------------------------------|--|-------------------------|-------------------------|--|----------|----------------------|----------------|---------|----------------|--|
| Cabinet Model           |                                  | 90KW   | 120KW                   | 180KW                   | 210KW  | 240KW    | 300KW                | 400KW          | 500KW   | 600KW          |  |
| Phase                   |                                  | 3-phase in/3-phase out   |                         |                         |  |          |                      |                |         |                |  |
| Power Module Capacity   |                                  | 30KW   | 20KW/30KW/50KW/60KW     |                         |  |          | 40KW                 | 50KW           | 60KW    |                |  |
| Size (WxDxHmm)          |                                  | 1100x514x763   | 1100x600x1475           |                         | 20/30/60KW:1100x600x2010<br>50KW:650x1095x2000 |          |                      | 1300x1100x2000 |         | 1100x1200x2010 |  |
| Cabinet Net Weight (Kg) |                                  | 183  | 20/30KW:335<br>60KW:270 | 20/30KW:438<br>60KW:300 | 30KW:549                                       | 60KW:466 | 30KW:620<br>60KW:510 | 450            | 450     | 1020           |  |
| Input                   | Input Voltage                    | 3x380VAC/400VAC/415VAC(3Ph+N)  |                         |                         |  |          |                      |                |         |                |  |
|                         | Voltage Range                    | 305~477VAC@100% Load; 208~304VAC@70% Load                                      |                         |                         |  |          |                      |                |         |                |  |
|                         | Nominal Frequency                | 50/60Hz(Auto Sensing)  |                         |                         |  |          |                      |                |         |                |  |
|                         | Frequency Range                  | 40Hz~70Hz  |                         |                         |  |          |                      |                |         |                |  |
|                         | Power Factor                     | >0.99@100% Load, >0.98@50% Load  |                         |                         |  |          |                      |                |         |                |  |
|                         | Harmonic Distortion(THDi)        | <3%@100% Load  |                         |                         |  |          |                      |                |         |                |  |
| Output                  | Nominal Voltage                  | 3x380VAC/400VAC/415VAC(3Ph+N)  |                         |                         |  |          |                      |                |         |                |  |
|                         | Voltage Stability (Steady State) | $\leq \pm 1\%$ Typical(Balanced Load); $\leq \pm 2\%$ Typical(Unbalanced Load) |                         |                         |  |          |                      |                |         |                |  |
|                         | Voltage Stability (Transient)    | $\leq \pm 5\%$ Typical   |                         |                         |  |          |                      |                |         |                |  |
|                         | Nominal Frequency                | 50Hz/60Hz  |                         |                         |  |          |                      |                |         |                |  |
|                         | Frequency Range(Synchronized)    | 46Hz~54Hz or 56Hz~64Hz   |                         |                         |  |          |                      |                |         |                |  |
|                         | Overload Capability              | 1 hour for 110%, 10 min for 120%, 1 min for 150%, 200ms for >150%              |                         |                         |  |          |                      |                |         |                |  |
|                         | Harmonic Distortion              | $\leq 1.5\%$ THD(Linear Load); $\leq 4\%$ THD(Non-linear Load)                 |                         |                         |  |          |                      |                |         |                |  |
| Efficiency              | 94.5%                            |  |                         |                         |  |          |                      |                |         |                |  |
| Battery/Charger         | Nominal Voltage                  | $\pm 216V(12V \times 36Pcs)$   |                         |                         |  |          |                      |                |         |                |  |
|                         | Maximum Voltage                  | $\pm 240V(12V \times 40Pcs)$   |                         |                         |  |          |                      |                |         |                |  |
|                         | Minimum Voltage                  | $\pm 192V(12V \times 32Pcs)$   |                         |                         |  |          |                      |                |         |                |  |
|                         | Float Charging Voltage           | 2.25V/Cell   |                         |                         |  |          |                      |                |         |                |  |
|                         | Boost Charging Voltage           | 2.35V/Cell   |                         |                         |  |          |                      |                |         |                |  |
|                         | Temperature Compensation         | Yes  |                         |                         |  |          |                      |                |         |                |  |
|                         | Maximum Charging Current         | 8A for each power module (User Adjustable)                                     |                         |                         |  |          |                      |                |         |                |  |
| Standards               | Safety                           | IEC/EN 60950-1; IEC/EN 62040-1   |                         |                         |  |          |                      |                |         |                |  |
|                         | EMC                              | IEC/EN 62040-2 Category C3   |                         |                         |  |          |                      |                |         |                |  |
| Environment             | Temperature and Humidity         | Temperature 0~40°C, Humidity 0~95% (Non-condensing)                            |                         |                         |  |          |                      |                |         |                |  |
|                         | Altitude                         | <1000m for nominal power   |                         |                         |  |          |                      |                |         |                |  |
|                         | Degree of Protection             | IP20   |                         |                         |  |          |                      |                |         |                |  |
| Management              | Smart RS-232 or USB              | Windows 2000/2003/XP/Vista/2008, Windows 7/8, Linux, Unix, MAC                 |                         |                         |  |          |                      |                |         |                |  |
|                         | Optional SNMP                    | Power management from SNMP manager and web browser                             |                         |                         |  |          |                      |                |         |                |  |

## Module Specification

| Model    | Capacity | Size (WxDxHmm) | Weight (Kg) |
|----------|----------|----------------|-------------|
| MPS-20KW | 20KW     | 650X440X132    | 33          |
| MPS-30KW | 30KW     | 650X440X132    | 34.5        |
| MPS-40KW | 40KW     | 700X510X178    | 44          |
| MPS-50KW | 50KW     | 700X510X178    | 45          |
| MPS-60KW | 60KW     | 750X438X130    | 44          |