

# Technical Specification

» 20KVA~300KVA 3:3

20KVA-300KVA 3P/3P					
Cabinet Model	MPS90K-30U	MPS120K-30U	MPS180K-30U	MPS210K-42U	MPS300K-42U
Maximum Capacity	90KW	80KW/120KW	120KW/180KW	210KW	300KW
Phase	3-phase in / 3-phase out				
Battery Voltage	± 192V/ ± 240V				
Battery Type	Built-in Battery Module	External Battery Pack			
Power Module Capacity	30KW	20KW/30KW		30KW	
Max. Power Module NO.	3	4	6	7+1	10
Max. Battery Module NO.	3	-	-	-	-
Size, D X W X H (mm)	1100X600X1475	1100X600X1475		1100X600X2010	
Cabinet Net Weight (Kgs)	675	333/335	435/438	515/549	618
Input	Input Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)			
	Voltage Range	305~477VAC at 100% Load; 208~304VAC at <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	3 x 380VAC/400VAC/415VAC (3Ph+N)			
	Voltage Regulation(Steady stat)	≤ ± 1%Typical(Balanced Load); ≤ ± 2%Typical(Unbalanced Load)			
	Voltage Regulation(Transient)	≤ ± 5% Typical			
	Nominal Frequency	50/60Hz			
	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	≤ 1.5% THD(Linear Load); ≤ 4% THD( Non-linear Load )			
	Efficiency	Up to 94.5%			
	Battery/Charger	Nominal Voltage	+/- 216V (12V x 36Pcs)		
Maximum Voltage		+/- 240V (12V x 40Pcs)			
Minimum Voltage		+/- 192V (12V x 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	Operation Temperature	0~40° C			
	Relative Humidity	0~95% Non-condensing			
	Altitude	<1000m for Nominal power			
	IP Class	IP20			
Management	SmartRS-232or USB	Windows® 2000/2003/XP/Vista/2008、Windows® 7/8、Linux、Unix、MAC			
	Optional SNMP	Power management from SNMP manager and web browser			

• Remarks: Products specifications are subject to change without notice.

Guangdong Prostar New Energy Technology Co., Ltd.

[Http://www.prostar-cn.com](http://www.prostar-cn.com)

400-900-6322

WeChat



Website



UPS

Uninterruptible Power Supply

**Prostar Modular UPS**

Mars (20kW-300kW) 3:3



LONG BACKUP

AVR

TEL/MODEM PORT

SOFTWARES

SURGE PROTECTION

DIGITAL DISPLAY

LIGHTNINGPROOF

## System Overview

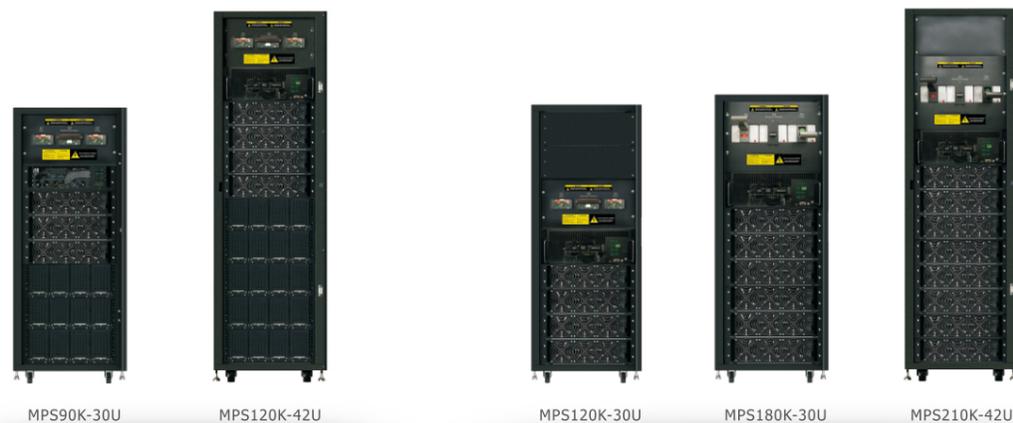


Mars series modular UPS uses high efficient online double conversion technology, and the efficiency can reach 94.5%. And it's seamlessly integrated with the latest data room designs, which is a high-reliability redundant scalable modular UPS systems.

Mars series modular UPS system with extremely flexible architecture, and its power modules using online hot-swappable design, which can easily be removed, installed and maintained when the system is throughnning, but without affecting system operation and output, which made the investment plan comes true according to the requirement. Which could both to meet the user extended equipment needs at later period, but also reduce the initial purchase cost.

Mars series modular UPS provides 20KW and 30KW power modules and two kinds of cabinets system, the user can be flexibly configured according to the load demand. The single cabinet can achieve maximum capacity up to 300KW, and provide 2 kinds ups system of 90KW and 120KW, which could be with built-in battery modules, for users choose easily.

## Module Cabinet



MPS90K-30U

MPS120K-42U

MPS120K-30U

MPS180K-30U

MPS210K-42U

Built-in Battery Module

External Battery Pack

## Range Of Applications



## Function Features

### 01 High efficiency online double conversion technology

Mars series modular UPS is applied online double conversion technology with high performance over 94.5% at 50% load. It significantly reduces overall Total Cost of Ownership(TCO).

### 02 High scalability

DSP control provides an improved solution with high performance. Integrated with modular design and parallel technology, simplifies future power expansion.

### 03 Unity output power factor

Mars series delivers unity output power (kVA=kW) providing the maximum power capacity to mission critical loads. It satisfies the requirements of the latest servers and optimizes IT investment with every penny.

### 04 Modular design lowers MTTR

Modular design is applied in power module, STS module and battery module. It will simplify maintenance and replacement with low MTTR(Mean Time To Repair).

### 05 Ease of installation and maintenance

Built-in maintenance bypass assures continuous power to critical loads during UPS maintenance. Besides, to facilitate in stallation and maintenance, all panel control and connectors are front accessibility.



### 06 High overload capability

Modular UPS supports, 110% overload for 60 minutes, 120% for 10 minutes, and 150% for 1 minute.

### 07 Graphic 10"full-color touch screen design for easy management

Designed for easy management, equipped with 10" graphic full-color touch screen.Intuitive design enhances display information identified and advanced configuration.

### 08 N+1 or N+X parallel redundancy for power guarantee

Scalable architecture allows you to optimize cost expense to meet power demands by vertically expanding is a single rack enclosure from 20KVA to 300 KVA and achieve N+1 or N+X redundancy in the same rack.

## Module Specification



Type	Model	Capacity	Size, DXWXH (mm)	Weight (Kgs)
Power Module	MPS-20KW	20KVA/20KW	650X440X132(3U)	34
	MPS-30KW	30KVA/30KW		34.5
Battery Module	MPS-Battery	12V9AH X 10Pcs	735X107X155	26

● Remarks: One battery module contains 10pcs of 12V9AH sealed lead acid batteries in one tray. One complete battery set contains 4 battery modules.