Prostar

Prostar Modular UPS
宝星模块化UPS

Mars火星系列(20KVA-600KVA) 3:3

LONG BACKUP | AVR | TEL/MODEM PORT | SOFTWARES | SURGE PROTECTION | DIGITAL DISPLAY | LIGHTNINGPROOF

System Overview 系列概述

Mars火星系列模块化UPS采用高效率在线双转换技术，效率可达94.5%，与最新的数据机房设计无缝集成，是一款冗余可扩容的高可靠性模块化UPS系统。

Mars火星系列模块化UPS系统结构极具弹性，功率模块采用在线热插拔设计，方便在系统运行时可随意移除、安装和维护而不影响系统的运行和输出，使投资规划真正实现随需扩展，既满足用户后期设备的扩展需求，又降低了初期购置成本。

Mars火星系列模块化UPS提供20KW和30KW两种功率模块以及机柜系统，用户可根据负载需求进行灵活配置。单个机柜最高可以实现600KVA的容量，并提供90KW和120KW两款可内置电池模块的机柜系统，方便用户选择。

Mars series modular UPS uses high efficient online double conversion technology, and the efficiency can reach 94.5%. And it's seamless 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 it's 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 600KVA, and provide 2 kinds ups system of 90KW and 120KW, which could be with built-in battery modules, for users choose easily .

Module Cabinet 模块机柜

MPS90K-30U　MPS120K-42U　MPS120K-30U　MPS180K-30U　MPS210K-42U

内置电池模块
Built-in Battery Module

外接电池组
External Battery Pack

Range Of Applications 应用范围

Function Features 功能特点

01 高效率在线双转换技术 High efficiency online double conversion technology

Mars系列模块UPS采用在线双转换技术，具有高性能，在50%负载的情况下，效率超过94.5%。它显著降低总使用成本（TCO）。

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 高扩展性 High scalability

DSP控制提供一个高性能的解决方案，集成了模块化设计和并机技术，简化了未来的电源功率扩容。

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

03 完整的输出功率因数 Unity output power factor

Mars系列提供完整的输出功率（kVA=kW），为关键负载提供最大功率容量。它符合最新的服务器的要求，为IT投资优化每一分钱。

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 模块化设计降低平均修复时间 Modular design lowers MTTR

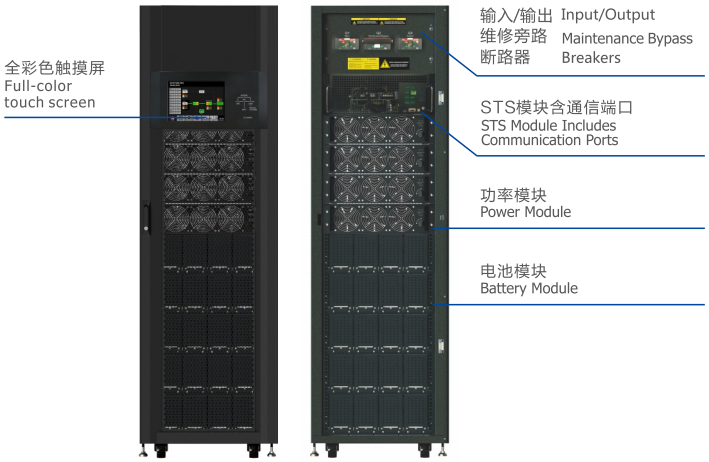
采用模块化设计的电源模块，STS模块和电池模块，将简化维护和更换，降低平均修复时间。

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 易于安装和维护 Ease of installation and maintenance

内置维修旁路，在维修期间确保为关键负载提供持续电源。此外，为便于安装和维护，所有的面板控制和连接器都是前端操作的。

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 高过载能力 High overload capability

模块化UPS过载110%支持60分钟，过载120%支持10分钟，过载150%支持1分钟。

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

07 10英寸全彩色触摸屏设计便于管理 Graphic 10"full-color touch screen design for easy management

设计上为了方便管理，配备10英寸全彩色触摸屏。直观的设计增强显示信息的识别和先进的配置。

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

08 N +1或N+ X并联冗余电源保证 N+1 or N+X parallel redundancy for power guarantee

可扩展的架构可允许您优化成本费用来满足电力需求，在同一个机架内，通过垂直扩展为一个单一的机架从20KVA扩展到600KVA，实现N +1或N+ X冗余。

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

Module Specification 模块参数

类型 Type	型号 Model	容量 Capacity	尺寸 Size, DXWXH (mm)	重量 Weight (Kgs)
功率模块 Power Module	MPS-20KW	20KVA/20KW	650X440X132(3U)	34
	MPS-30KW	30KVA/30KW		34.5
	MPS-40KW	40KVA/40KW	510x510x178	44
	MPS-50KW	50KVA/50KW	510x510x178	45
	MPS-60KW	60KVA/60KW	750x438x130	44
电池模块 Battery Module	MPS-Battery	12V9AH X 10Pcs	735X107X155	26

- 备注：一整组电池包括4个模块，每个电池模块可安装10个12V9AH铅酸蓄电池。
  Remarks: One battery module contains 10pcs of 12V9AH sealed lead acid batteries in one tray. One complete battery set contains 4 battery modules.

Technical Specification 技术参数

» 20KVA~600KVA 3:3

20KVA-600KVA 3P/3P 三进三出机型										
机柜型号 Cabinet Model		MPS90K	MPS120K	MPS180K	MPS210K	MPS240K	MPS300K	MPS400K	MPS500K	MPS600K
机柜最大容量 Maximum Capacity		90KW	120KW	180KW	210KW	240KW	300KW	400KW	500KW	600KW
相位 Phase		三进三出 3-phase in / 3-phase out								
电池电压 Battery Voltage		±192V/±240V								
电池模式 Battery Type		内置电池模块 Built-in Battery Module	外置电池组 External Battery Pack							
功率模块容量 Power Module Capacity		30KW	20KW/30KW/50KW/60KW					40KW	50KW	60KW
最大功率模块数量 Max. Power Module NO.		3	2	3	7	4	5	10	10	10
最大电池模块套数 Max. Battery Module NO.		3	–	–	–	–	–	–	–	–
尺寸 Size, D X W X H (mm)		1100x514x763	1100x600x1475		20/30/60KW:1100x600x2010 50KW:650x1095x2000			1300X1100X2000		1100X1200X2010
机柜净重 Cabinet Net Weight (Kgs)		183	20/30KW:335 60KW:270	20/30KW:438 60KW:300	30KW:549	60KW:466	30KW:620 60KW:510	450	450	1020
输入 Input	输入电压 Input Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)								
	电压范围 Voltage Range	100%负载305~478VAC; <70%负载208~304VAC 305~477VAC at 100% Load; 208~304VAC at <70% Load								
	额定频率 Nominal Frequency	50/60Hz(自动适别) 50/60Hz(Auto Sensing)								
	频率范围 Frequency Range	40Hz~70Hz								
	功率因数 Power Factor	100%负载>0.99; 50%负载>0.98 >0.99 @ 100% Load, >0.98 @ 50% Load								
	电流谐波失真 (THDi) Harmonic Distortion (THDi)	< 3% @ 100% 负载 < 3% @ 100% Load								
输出 Output	额定电压 Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)								
	电压稳定性(稳态) Voltage Regulation(Steady state)	≦±1%典型值(平衡负载);≦±2%典型值(不平衡负载)≦±1%Typical(Balanced Load);≦±2%Typical(Unbalanced Load)								
	电压稳定性(瞬态) Voltage Regulation(Transient)	≦±5%典型值 ≦±5% Typical								
	额定频率 Nominal Frequency	50/60Hz								
	频率范围(同步范围) Frequency Range(Synchronized)	46Hz~54Hz or 56Hz~64Hz								
	过载能力 Overload Capability	100-110%60分钟,111-120%10分钟,126-150%60秒,>150%200毫秒 1 hour for 100-110%,10 min for 110-120%,1 min for 126-150%,200ms for >150%								
	谐波失真 Harmonic Distortion	≦1.5% THD(线性负载);≦4% THD(非线性负载) ≦1.5% THD(Linear Load);≦4% THD(Non-linear Load)								
	效率 Efficiency	最高可达94.5% Up to 94.5%								
电池/充电 Battery/Charger	额定电压 Nominal Voltage	+/- 216V (12V x 36Pcs)								
	最大电压 Maximum Voltage	+/- 240V (12V x 40Pcs)								
	最低电压 Minimum Voltage	+/- 192V (12V x 32Pcs)								
	浮充电压 Float Charging Voltage	2.25V/Cell								
	大充电压 Boost Charging Voltage	2.35V/Cell								
	温度补偿 Temperature Compensation	Yes								
	最大充电电流 Maximum Charging Current	每个模块8A(用户可调) 8A for each power module (User adjustable)								
环境条件 Environment	工作温度 Operation Temperature	0~40° C								
	相对湿度 Relative Humidity	0~95% 不结露 0~95% Non-condensing								
	高度 Altitude	<1000m 额定功率 <1000m for Nominal power								
	IP防护等级 IP Class	IP20								
管理 Management	智能型RS-232或USB SmartRS-232or USB	Windows® 2000/2003/XP/Vista/2008、Windows® 7/8、Linux、Unix、MAC								
	选配 SNMP Optional SNMP	支持由SNMP管理员和网络浏览器进行电力管理 Power management from SNMP manager and web browser								

● 备注：产品规格如有变更，恕不另行通知。 Remarks:Products specifications are subject to change without notice.

广东宝星新能科技有限公司
Guangdong Prostar New Energy Technology Co., Ltd.
Http://www.Prostar-cn.com
全国服务热线 400-900-6322
微信/WeChat
网站/Website