ADDING LIFE TO YOUR POWER

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MAKE IN INDIA

Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

CERTIFIED ISO 9001:2015 COMPANY

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Meenakshi Power Solutions

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"Meenakshi power solutions ",Manufacturers of high grade UPS & customized ups systems for extreme Industrial critical applications, An Organization working towards Energy saving and Management Solutions for tomorrows growing Energy demands.

Meenakshi power solutions is a team of Power Electronic Technocrats, The Directors of the company has combined experience of 25 years of building India's leading Power Electronics Company. Our Core team has more than 2 decades hands-on experience in delivering power electronics solutions with Designing, Engineering, Manufacturing, Marketing and servicing state of the art power electronics products in India and neighboring countries.

Talking about the technology of the UPS system we have been offering latest 32 Bit DSP IP20 & IP 21 with built-in isolation transformer with reverser power protection for critical application.

After Sales service Support

Dedicate, trained technical manpower, efficient spares provisioning, distributed & sophisticated service infrastructure and responsive higher management are the essential ingredients of well oiled after sales machinery.

UNDERSTANDING CUSTOMERS REQUIREMENT

That is why, a wide clientele, comprising of process instrumentation required for Power sector, Telecom industry, Refineries, Software, Acropetal technologies LTD, TCE tata consulting engineers LTD, Max, life style, City max, land mark group, OTIS elevators, Mitsubishi elevators / Mitsubishi Electric Continental Hospitals, Quess Corp, Kirusa software (P) LTD, DHFL Housing finance LTD, T.T.L Technologies (P) LTD, TATA ADVANCED MATERIALS LIMITED, Hyundaimobis, Hyundai, Syndicate bank, DRDO, IAS, DARE, Pitti Engineering are acceptable across all industries and service sectors, where the requirement of quality power is very critical and a matter of concern.

OUR EXPERIENCE

25 + Years

of dedicated field experience in power Solutions Supporting critical equipment & applications

5000 + Installation

across India, Middle-East, Africa & South Asia.

1000 + Megawatt

Power backup & power conditioning products (Industrial Grade) delivered.

50 + 1 MW Customers

Customers with more than 1MW of our products.

POWER SOLUTION	POWER FAILURE	UNDER VOLTAGE	OVER VOLTAGE	LINE NOISE	SWITCHING TRANSIENTS	FREQUENCY VARIATION	HARMONIC DISTORTION
		VOLTAGE STABILIZER		ISOLATION TRANSFORMER		HARMONIC FILTER	

Manufacturers & Distributors:

Online UPS System | Harmonic Filters | Power Saving Solutions | Solar Power Systems
Batteries | Electric Car & Two Wheeler Charging Solutions

Services offered:

AMC | Rental | Power Quality Audit | Battery Impedance Test | Stabilizers & D.G sets
All kinds of Power Solutions and IT Product Solutions

MPS
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Meenakshi Power Solutions

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Ups Inverters & Batteries

Industrial Solutions

Load Monitoring Hormonic Solutions

Electricity Power Consumption Solutions

Data Center Solutions

IT Solutions

UPS | BATTERIES | STABILIZERS | DG SETS | POWER QUALITY AUDIT | IT PHERIPERALS

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Technical Specification

MODEL	MPS-IF110EX	MPS-F1101B	MPS-F1102EX	MPS-F1102EY	MPS-F1102B8	MPS-F1102IB	MPS-F1103EX	MPS-F1103IB
Capacity(VA)	1 KVA TO 3 KVA		5/6 KVA			3000	6000	10000
INPUT								
Nominal Voltage	180-270 VAC (1ph+N+PE, 3 Wire)							
Operating Voltage Range	110V-300V AC Load Dependent							
Operating Frequency Range	50 / 60 Hz ± 10% (Auto Sensing)							
Power Factor	>0.99							
OUTPUT								
Output Voltage/Power Factor	220V / 230V / 240V AC / ± 1% / 0.8 Std., 0.9 Optional							
Output Frequency	Auto Sensing 50 / 60 Hz ± 1~10% Sync Mode (Configurable), 50/60 Hz ± 0.1 Hz Battery Mode							
Harmonic Distortion (THDv)	<2% (Linear load), <5% (Non Liner Load							
Crest Factor	3:1							
OUT PUT WAVEFORM	Sinewave (SINUSOIDAL)							
BATTERY								
DC Voltage	36V		96V /120 /192					
Battery Type & Number		SMF 12V X 3/6/8			SMF 12Vx08/10/16		SMF 12Vx10/16/20	
Backup Time (50% Load)		12 Min.			19 Min.		19 Min.	
Backup Time (Full Load)		05 Min.			08 Min.		08 Min.	
Charge Current	6A-10	1A-3 A	6A-12 A		1A-3A	6A – 20 A	1 A - 3A	
Typical Recharge Time	8 Hours (90% of full capacity)							
SYSTEM FEATURES								
LCD Indication	Input Voltage/Frequency, Output Voltage/Frequency, Battery Voltage, Load Watt/VA and %, Inverter Temperature, Operation Mode such as “On Line”, “ON Batt” or On “Bypass”, Fault Codes, Battery & Load Bar graph							
LED Indication	Normal Operation, Bypass, Abnormal, Fault and Battery Mode							
Alarms / Protection	Batt, Low, DC High, Inverter Under / Over Voltage, UPS Over Load, Short Circuit, Fan Failure and UPS Fault.							
Overload Capability	Ç 125% for 10 Min, >125-150% for 1 Min, >150% for 200 ms							
Transfer Time	AC to Battery : Oms, Inverter to Bypass : 4ms (Typical)							
ENVIRONMENTAL								
Temperature	Operating:0~45^{0}C, Storage:- 10^{0}C ~ 55^{0}C							
Humidity / Altitude	0~95% RH Non-condersing / <1500 M							
Noise	Low Audible Noise Level							
PHYSICAL								
Dimension WxDxH (mm)	144x400x215		192x469x399					
Weight (Kg)	5.6	11.2	10.8	11.2	26.7	10.8	11.2	26.7
STANDARDS								
Quality	ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, RoHS							
Safety	IEC/EN62040-1							
EMC / Performance	IEC/EN62040-2:IEC62040-3, Complying to CE							
COMMUNICATION INTERFACE								
Standard	RS-232							
Optional	SNMP / ModBus / Dry Contact / USB / RS-485							
Monitoring Software	NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000							

*Specifications are subject to change without prior notice

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Online UPS

MPS - MF Series,
1 KVA -10 KVA
IGBT Technology with
Isolation Transformer

Application:

PC, Servers, Networking Equipments, Security Systems, Medical Equipments etc.

FEATURES

- True online, Double conversion, PWM technology
- Fully digitized microprocessor control, High frequency, Pure sine wave output
- LCD display and wide input voltage range
- High input power factor >0.99
- Static bypass and cold start
- IGBT based - inverter & rectifier
- Isolation transformer compatible
- Advanced battery management
- Automatic battery charge in UPS off mode
- EMI / RFI and noise filter
- Generator and solar compatible
- High reliability digital control
- Auto-start function
- ECO mode

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Technical Specification

MODEL		MPS110/MPS330	MPS33120	MPS33200	MPS33150	MPS33250	MPS33180	MPS33300
Capacity	UPS Cabinet	MPS33-40/60K	MPS33-120K	MPS33-200K	MPS33-150K	MPS33-250K	MPS33-180K	MPS33-300K
(VA/Watts)	Module	MPS-PM 1-3 / 6 -20 (20A/20KW)		MPS-PM25X(25KVA/25KW)			MPS-PM30X(30KVA/30KW)	
INPUT								
Nominal Voltage / Phase		186-270 VAC Single Phase,285-470VAC @100% Load,Three Phase (4 wire)						
Operating Voltage Range		304 ~478Vac at 100% load,228~478VAC with load decreases below 50%						
Operating Frequency Range		40~70Hz						
Power Factor		í 0.99						
Bypass Voltage Range		Max. voltage: +15%(optional +5%, +10%, 25%) Min. voltage:- 45% (optional -20%, -30%) Frequency protection range: ± 10%						
Harmonic Distortion (THDi)		Ç3% @ 100% nonlinear load						
Generator Input		Support						
OUTPUT								
Output Voltage		220/230/240/380/400/415VAC, (3Ph+N+PE)						
Voltage Regulation		±1%						
Power Factor		0.9/1 (unity)						
Output Frequency		1. Line Mode: ± 1%, ±2%, ±4%, ±5%, ± 10% of the rated frequency (optional) 2. Battery Mode: (50/60±0.2%Hz						
OUT PUT WAVEFORM		SINE WAVE (SINUSOIDAL)						
Crest Factor		3:1						
Harmonic Distortion (THD)		Ç1% with linear load						
		Ç5% with non linear load						
Efficiency		AC-AC Normal mode í 96%, Eco mode í 99%, Battery Mode í 96%						
BATTERY								
Battery Voltage		36/72/96/192/240		±240VDC.				
Charge Power Pression		20% of System Power						
SYSTEM FEATURES								
Transfer Time		Utility to Battery : Oms; Utility to bypass to bypass: Oms						
Overload	Line Mode	Load Ç 110%: last 60min, Ç125%: last 10 min, Ç 150%: Last 1min, í 150% shut down UPS immediately						
Short Circuit		Hold whole system						
Communication Interface		1. UPS cabinet : Rs232, Rs485, Dry Contact, Intelligent slot x 2(SNMP card, Relay card optionl)						
ENVIRONMENTAL								
Operating Temperature		0 ~ 45°C						
Storage Temperature		-40 ~ 70°C						
Humidity Range		0 ~ 95% (non condensing)						
Altitude		< 1500m no derating						
Noise Level		< 65dB @ 100% Load						
PHYSICAL								
Dimension	UPS cabinet	600*900*2000	600*900*1600	600*900*1100	600*900*1100	600*1100*1600	600*1100*2000	600*1100*2000
WxDxH (mm)	Module		440*590*134(3U)			460*790*134(3U)		
Net Weight	UPS cabinet	179	145	105	165	220	165	220
(Kg)	Module	22			32		34	
STANDARDS								
Safety		IEC/EN62040-1,IEC/EN60950-1						
EMC		IEC/EN62040-2, IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8, Complying to CE						

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ADDING LIFE TO YOUR POWER

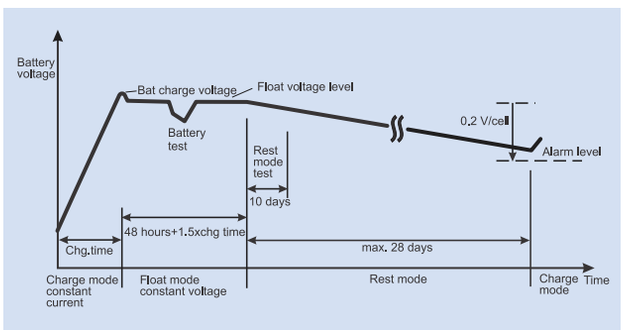
Online UPS
MPS - Modular
SC1100/3100
1 KVA - 40 KVA

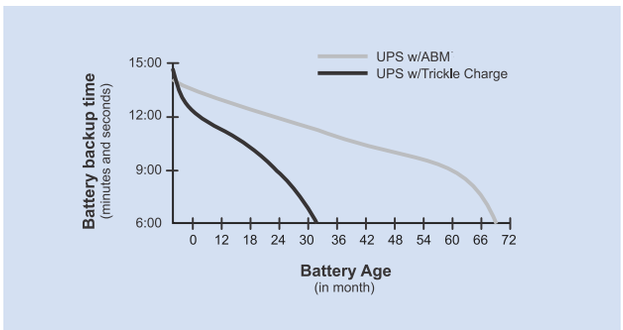
Application:

Data centre, Medical, IT, BT, BPO, Telecom, Infrastructure, Security, Defence, Transport

FEATURES

- High frequency and double conversion on-line technology
- Fully digitized microprocessor control
- Wide input voltage range
- LCD display
- Cold start
- Parallel capacity up to 4Nos.
- Advanced battery management
- Automatic battery charge in UPS off mode
- Lightning and surge protection
- Short circuit and overload protection
- Fan speed adjusted by load automatically
- Optional extension battery pack
- EMI / RFI noise filter
- Smart RS232 communication with monitoring software
- Optional SNMP card slot





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Technical Specification

MODEL	116L16	3110L16	3115L30	3115L20	3130L30	3140l30
INPUT						
Voltage (VAC)	186-270 VAC Single Phase,285-470VAC @100% Load,Three Phase (4 wire)					
Frequency (HZ)	50Hz±10%					
Power Factor	>0.95					
OUTPUT						
Power (VA)	6000-10000		15000-20000		30000	40000
Power Factor	0.8(Standard)					
Voltage(V)	220/230/240 Single Phase,285-470VAC @100% Load,Three Phase (4 wire)					
Frequency(Hz)	50 ± 0.1%					
Waveform	Sine Wave (Sinusoidal)					
THDv	THD < 3%					
Overload	125% of rated load last for 60 second 150% of rated load last for 1 second					
Isolation Transformer	Inbuilt Isolation Transformer					
BATTERY						
Battery type	VRLA or SMF					
Battery voltage	120/192 VDC	240 VDC		360/384 VDC		
Charger current (Max)	1~10 Amp Standard (Higher Rating optional)					
Recharge Time	<10hours to 95%					
OTHER FEATURES						
Display	LCD display indicating (Input voltage, Output voltage, Input frequency, Output frequency, load capacity, battery voltage) LED indications : Mains, AC Mode, DC Mode, Low battery, Overload					
Alarm	Battery low voltage, abnormal power supply, UPS failure, Overload					
Protection	Protection for battery low voltage, overload, short circuit and over temprature					
Noise (db)	<65 dB (1meter)			<75 dB (1meter)		
Efficiency	Upto 90%					
Communication interface (Opt.)	Rs232, SNMP, Dry Contact (optional)					
Temperature & RH	0 ~ 40^{0}C, 0 ~ 95%, No condensation					
Dimension (WxDxH)mm	280x615x685		350x650x795			450x970x970
Weight (kg)	88 Kg		117 Kg		150 Kg	220 Kg

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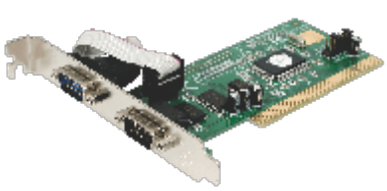
Online UPS

MPS - IV4,6-40 KVA



Application:

PC, Workstation, Printer, Servers, Medical Equipment's, AC, lighting Application, Freezer, Lift Application,
2 - Level IGBT Technologies

FEATURES

- True online, Double conversion design
- Output inbuilt isolation transformer
- Wide input voltage range
- User-friendly digital LCD display
- Cold start function
- High crest factor circuit design
- Advanced battery management
- Improved input power factor

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Technical Specification

Rack capacity	MPS-RM3300/90	MPS-RM3300/180/240	MPS-RM3300 / 240/480
Capacity (VA) Module Rating	20 / 30 / 40 KVA		
INPUT			
Nominal voltage	285-470VAC(3Ph+N+PE)		
Operating voltage range	305-478 VAC(3-phase)@100% load; 190-520 VAC(3-phase)@90%load		
Operating frequency range	46~54Hz or 56~64Hz (auto sensing)		
Power factor	í 0.99@100% load		
OUTPUT			
Output voltage	380/400/415 VAC		
AC Volt. Regulation (Batt. Mode)	± 1%		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio/Power factor	3:1 (max.) / 0.9		
Harmonic Distortion	Ç2 % THD (Linear Load); Ç5 % THD (Non-linear Load)		
Transfer Time (AC to Batt. mode)	Zero		
Inverter to Bypass	Zero		
Waveform (Batt. Mode)	Pure Sine wave (Sinusoidal)		
EFFICIENCY			
AC Mode	96%		
Battery Mode	96.5%		
BATTERY			
Battery Type	Depending on the capacity of external batteries		
Numbers	384 - 480 **		
Charging Current (max.)	Up to 40 A max.		
Charging Voltage	530 - 542 VDC ± 1% (based on battery numbers at 32-40 pcs)		
INDICATORS			
LCD Panel	Ups status, Load level, Battery level, Input/Output voltage, Discharge timer and Fault conditions		
ALARM			
Battery Mode	Sounding every 4 seconds		
Low Battery	Sounding every second		
Overload	Sounding twice every second		
Fault	Continuously sounding		
PHYSICAL			
Dimension, UPS cabinet	600*900*2000	600*900*1600 / 600*900*1100 / 600*900*1100	600*1100*1600 / 600*1100*2000 / 600*1100*2000
WxDxH (mm) Module	440*590*134(3U)		460*790*134(3U)
Net Weight UPS cabinet	179	145 / 105 / 165	220 / 165 / 220
(Kg) Module	22	32	34
ENVIRONMENT			
Operation Humidity	0-95% RH @ 0 - 40°C (non-condensing)		
Noise Level	Less than 60dB @ 1 Meter		
MANAGEMENT			
Smart RS-232/USB	Supports Windows ® 2000/2003/XP/ Vista/2008, Windows ® 7, Linux, Unix and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

Specifications are subject to change without prior notice.

** UPS has got flexi battery DC bus, Battery no. can be adjusted to 16, 18, 20 Nos.

*** Maximum capacity can be configured to 480KVA (4 x 20KVA, 4x30, 3x30, 20x3, 15x3/2, in Parallel Mode).

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ADDING LIFE TO YOUR POWER

Online UPS
Data Centre Solutions

Rack Mountable,
3 KVA - 480 KVA, N+1,
N+N, N+2

Application:

Data centre, Medical, Industry, Telecom, Infrastructure, Security, Defence, Transport
IT & Critical Application

FEATURES

- High frequency and double conversion on-line technology
- Fully digitized microprocessor control
- Wide input voltage range
- LCD display
- Cold start
- Parallel capacity up to 4Nos.
- Advanced battery management
- Automatic battery charge in UPS off mode
- Lightning and surge protection
- Short circuit and overload protection
- Fan speed adjusted by load automatically
- Optional extension battery pack
- EMI / RFI noise filter
- Smart RS232 communication with monitoring software
- Optional SNMP card slot

Technical Specification

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Hiness

MODEL Capacity	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA	600kVA	800kVA
Power Watt	120kW	160kW	200kW	250kW	300kW	400kW	500kW	600kW	800kW
INPUT									
Input Voltage Range	220/380VAC - 15% +18% 3P+N+PE, Optional 220/380/VAC -37% + 22% 3P+N+PE								
Input Power Factor	at Full Load > 0.99								
Input Frequency Range	45-65Hz (selectable)								
Rectfier	IGBT								
Total Harmonic Distortion (THDi)	<3% at Rated Load								
OUTPUT									
Output Voltage Range	220/380VAC, 230/400VAC and 240/415VAC 3P + N								
Recovery	0%-100%-0% Load, Maximum output Tolerance 5%, 1% Back to Band <40ms								
	96.5%, ECO Mode 98.5%								
Output Frequency Range	50Hz Synchronous with the Mains / 50Hz Battery Mode								
THD (THDv)	Linear Load <2%								
	Non- Linear Load <5%								
Crest Factor (CF)	3:1								
Overload Capacity	at 125% Load 10min, at 150% Load 1min								
Waveform	Pure Sine wave (Sinusoidal)								
BATTERY									
Quantity (12V DC VRLA)	2x30								
Charge Value (C)	Nominal 0.1C, Adjustable								
Battery Power	25% of The Device Power								
Internal Battery	Not Available								
COMMUNICATION									
Communication Port	Rs232 Standard, Rs485 and SNMP Adapter Option								
Dry Contact	Optional								
Protocol	SEC, TELNET								
STANDARDS									
Quality	ISO 9001, ISO 14001, ISO 18001, ISO 27001								
Performance	EN62040-3 (VFI-SS-111)								
EMC/LVD	EN62040-2 / EN62040-1 En60950								
GENERAL									
Running Temperature	$0^{o}C$ ~ $45^{o}C$								
Storage Temperature	$-25^{o}C$ ~ $70^{o}C$								
Protection Class	IP20-IP21								
Chassis	Anti-Static Paint Protection								
Humidity	0-95%								
Altitude	<100m, Correction Factor1, <200m, Correction Factor >0.92, <300m; Correction Factor > 0.84								
Alerts	500 Event Log								
Parallel Operation	Parallel Power Increase up to 8 systems.								
EPO (Emergency Power)	Standard								
Isolation Transformer					Optional				
Net Weight (kg)	355	425	450	485	700	850	1350	1400	1850
Dimensions (WxDxH) (mm)	810x820x1705		830x870x1800		1480x850x1790			1830x863x2010	3400x806x1904

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

Online UPS
MPS - Hi - Ness - 800 KVA
120 KVA - up to 10 MW

Application:
Data centre, Medical, Industry, CNC, Telecom, Infrastructure, Security, Defence, Transport, Lift, Motor Load & Heater Load

FEATURES

- True three level IGBT rectifier & inverter technology
- With isolation transformer / without isolation transformer
- High output power factor 0.9
- On line-double conversion technology (Class VFI-SS-111)
- IGBT PWM rectifier & inverter technology
- DSP control
- Ultra high efficiency up to 96.5%
- Low input current THDi (<3%)
- High input power factor (>0.99)
- Dual input
- Optional DC/DC Charger / Booster
- Wide input voltage range (optional)
- Advance battery management
- Short circuit and overload protection
- Parallelable modules up to 8 units
- 500 Real time event log with detailed parameters
- Static & manual bypass operation
- Small & footprint and easy maintenance
- Advance communication capabilities
- Perfect generator compatibility

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Technical Specification

Upto 250 KVA

MODEL		MPower+ 10K	MPower+ 15K	MPower+ 20K	MPower+ 30K	MPower+40K	MPower+ 60K	MPower+ 80K	MPower+ 100K	Power+ 120K
CAPACITY		10KVA/9KW	15KVA/13.5KW	20KVA/18KW	30KVA/27KW	40KVA/36KW	60KVA/54KW	80KVA/72KW	100KVA/90KW	120KVA/108KW
INPUT										
Nominal Voltage		3 x 380VAC/400VAC/415VAC (3Ph + N)								
Acceptable Voltage Range		285VAC ~ 480VAC								
Frequency		50/60 Hz ± 10 %								
OUTPUT										
Nominal Voltage		3 x 380VAC/400VAC/415VAC (3Ph + N)								
Precision		Stastionary: ±1% Transitory: ±5% (load varitions 100-0-100%)								
Frequency		50/60 Hz synchronised ±1 % With mains absent ±0.1 Hz								
Max. Synchronis on Speed		±1 Hz/s								
Waveform		Pure Sinewave (Sinusoidal)								
Total Harmonic Distoration (THDv)		<2% (Linear Load) <5% (Non-linear Load)								
Phase Displacement		120º ±1% (balanced load) 120º ±2% (imbalances 50% of the load)								
Dynamic Recovery Time		3 cycles at 90 % of the static value								
Admissible Overload		110% for 60min; 125% for 10min; 150% for 1min; >160% for 200ms								
Admissible Crest Factor		3:1								
Admissible Power Factor		0.6~1 (inductive or capacitive)								
Imbalance output Voltage @ 100% Unbalanced Load		<1%								
Current Limit		High overload, short-circuit: RMS Voltage Limit High Crest-Factor current: Peak Voltage Limit								
Overall Efficiency	Line Mode	91.5%	91.5%	92.5%	93.5%	94.5%				
	Battery Mode	91.5%	91.5%	92.5%	94.5%	94.5%				
STATIC BYPASS										
Type		Solid state								
Voltage		3 x 380VAC/400VAC/415VAC (3Ph + N)								
Frequency		50/60 Hz								
Activation Criterion		Microprocessor control								
Transfer Time		Zero								
Admissible Overload		150% for 1 hour; 180% for 30sec; >200% for 200ms								
Transfer to Bypass		Immediate, for overloads above 160%								
Retransfer		Automatic per alarm clear								
MAINTENANCE BYPASS										
Type		Without interruption								
Voltage		3 x 400V (3Ph + N)								
Frequency		50/60 Hz								
BATTERY & CHARGER										
Battery Type and Numbers		12VDC x 32 unit (29~32 unit adjustable)								
Nominal Battery Voltage		384 VDC (Based on 32unit batteries)								
Charging Method		CC/CV								
Charging Current		Default 10A, Max. = Capacity / Battery Voltage Default: 10A. Max. 40A								
Charging Voltage		432 VDC (Based on 32pcs batteries)								
SYSTEM FEATURES										
Communication Interface		RS 232 Inbuilt; Dry Contact, RS 485, SNMP Modbus(Optional)								
LED Indications		Bypass, Mains, Battery and Fault								
LCD Display		Input Voltage & Freq.; Output Voltage, Current, KVA, KW, Total Power, PF, Load % Per Phase, Load % Total & Freq.; Bypass Voltage & Freq.;Inverter Voltage & Freq.; Battery Voltage, DC Bus Voltage, Charging Current, Discharging Current, Temperature.								
ENVIRONMENTAL										
Operating Temperature		0^0C ~ 45^0C								
Storage Temperature		-25^0C ~ 70^0C								
Relative Humidity		0 ~ 95%								
Altitude		Up to 1000 Mtr.								
Noise Level		A 40 dB			A 45 dB			A 60 dB		
STANDARDS										
EMC/Safety		IEC/EN 62040-1; IEC/EN 60950-1; IEC/EN 62040-2-3								
PHYSICAL										
Dimensions, D x W x H(mm)		656 x 405 x 817			656 x 405 x 941		821 x 432 x 1159		975 x 554 x 1286	975 x 635 x 1326
Net Weight (Kgs)		118	120	145	193		278	365	471	573	650

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

Online UPS
Industrial Grade
mPower+
10 KVA - 1MW

Application:
Offset printing press, IT industry, Banks, Medical Labs, Manufacturing Industry

FEATURES

- Online double-conversion
- DSP technology guarantees high reliability
- True galvanic isolation transformer design
- Control designed to withstand all kinds of loads
- Intelligent battery management to prolong battery lifecycle
- Adjustable battery numbers
- Redundant fan design and independent ventilation enhance durable operation under harsh environment
- Accept dual-mains input
- Parallel operation with up to 4 units (option)
- Variety of communication options available
- SNMP/Modbus compatible

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Technical Specification

MODEL		MPS-SC 3300	MPS-SC 3300	
Capacity (KVA)		60/90	120/240	240/480
INPUT				
Nominal voltage		380/400/415 VAC(3Ph+N+PE)		
Voltage Range		+25% - 35%		
Frequency Range		50/60Hz ± 20% Auto Sensing		
Power factor		í 0.99		
Harmonic Distortion (THDi)		2% (Non-Linear Load)		
Bypass	Voltage	35% (Optional - 20%, - 30%)		
Range	Frequency	± 10% (Configurable)		
Generator Input		Support		
OUTPUT				
Output Voltage		380V/ 400V / 415V AC (3Ph+N+PE)		
Voltage Regulation		± 1%		
Power Factor		0.9 Standard / Utility Optional		
Frequency		Auto Sensing 50/60 Hz ± 1~10% Sync Mode (Configurable), 50/60 Hz ± 0.1 Battery Mode		
Crest Factor		3:1		
Harmonic Distortion (THDv)		Ç 2% with Linear Load; Ç 5% with Non-Linear Load		
Overload		í 125% for 10 Min, í 150% for 1 Min, Ç 150% for 200 ms		
Efficiency		Up to 95% Dual Conversion Mode, 99% ECO Mode		
BATTERY				
Battery Voltage		Standard Unit: ± 216V DC; Unit Configurable Voltage: ± 192V / ± 204V / ± 216V / ± 228V / ± 240 DC		
SYSTEM FEATURES				
Transfer Time		Zero		
Self-Diagnostics / EPO		Upon power On and Software Control / Inbuilt		
IP Protection		IP 20		
Alarm / Protection		Line Failure, Battery Low, Overload, System Fault and short Circuit		
Display	LED	Line Mode, Bypass Mode, Battery Low, Overload and UPS Fault Codes		
	LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load %, Battery Voltage % Temperature, Output W/V/A		
Parallel		Inbuilt		
ENVIRONMENT				
Temperature		Operating: 0~45°C, Storage: - 10°C ~55°C		
Humidity / Altitude		0~95% RH Non-Condensing / <1500 M		
Noise		Low Audible Noise Level		
STANDARDS				
Quality		ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, RoHS		
Safety		IEC/ENC2040-1		
EMC / Performance		IEC/EN62040-2; IEC/EN62040-3, Complying to CE		
PHYSICAL				
Dimension WxDxH (mm)		600x780x1200		
Net Weight (Kg)		158	190	196
COMMUNICATION INTERFACE				
Standrad		RS-232		
Optional		SNMP / ModBus / Dry Contact USB / RS-485		
Monitoring Software		NetAgent Utility v5.8 / View Power UPSilon 2000 / Muser 4000		

* Specifications are subject to change without prior notice.

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

Online UPS

MPS - SC Series,
Modular UPS 10-480 KVA

Application:

Server, Bank, Industry equipment, IT equipment, Communication system & other networking equipment

FEATURES

- DSP - controlled modular redundancy technology
- Parallel redundancy up to 4 units
- Wide input voltage and frequency windows
- Easy-to-operatre LCD display
- High power density up to 480kVA for space saving low foot print
- Unity power factor and low input distortion
- Output power factor 0.9, 01(optional)
- ECO mode for energy saving
- Common or separate battery bank
- Programmable battery voltage from 384Vdc (32No.) to 480Vdc (40No.)
- Intelligent charge modes with smart charge current adjustment
- SNMP / Mod bus protocol supported
- Versatile communication interfaces provided for different applications
- Superior overload capacity
- Programmable control and monitoring software
- Can be configured to single phase output (O)
- With isolation transformer & without Isolation transformer

ADDING LIFE TO YOUR POWER

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Technical Specification

MODEL								
Capacity	**KVA** 80 / 100 / 120 / 160	200	250	300	400	500	600	
	KW 72/80/90/100 /108/120/144/160	180/200	225/250	270/300	360/400	450/500	540/600	
INPUT								
Rated Voltage	380V / 400V / 415V AC (3Ph+N+PE)							
Voltage Range	±20%							
Rated Frequency	50 / 60 Hz							
Frequency Range	50 / 60 Hz ± 5 Hz							
Power Factor	í 0.99							
Total Harmonic Distortion (THDi)	Ç3%							
Bypass Voltage Range	± 20% (Configurable)							
ECO Voltage Range	± 10% (Configurable)							
OUTPUT								
Rated Voltage	380V / 400V / 415V AC (3Ph+N+PE)							
Voltage Regulation	± 1%							
Frequency	50 / 60 Hz Synchronised with Utility in Mains Mode; 50 / 60 Hz ± 0.1 % in Battery mode							
Power Factor	0.9 lagging / leading, without power derating							
Waveform	Sine Wave (Sinusoidal)							
Crest Factor	3:1							
Static & Dynamic Stability	Static: ± 1%, Dynamic: ± 5% in 10 ms							
Harmonic Distortion (THDv)	1% (Linear Load); 5% (Non-Linear Load)							
Transfer Time	Mains Mode to battery Mode and Invertor Mode to Bypass Mode: 0 ms, Inverter Mode to ECO Mode 5-10ms							
Overload Capability	125% for 10 Min., 150% for 1 Min., 199% for 10 sec., >200%: Shutdown in 100ms.							
Adjustment of Inverter output voltage	± 5V							
BATTERY								
DC Voltage	12V x Configured Battery Number (Configure via Display Panel)							
Number of Battery	48~52 Nos. (Configurable)							
Charging Current	16 A	20 A	25 A	30 A	40 A	50 A	60 A	
Charging	Three-Stage Charging, Auto Switch Floating / Equalizing Charge							
Battery State Display	Display Battery Backup Time, Battery Remaining Capacity							
Battery Shelf-Test	Configurable Periodic Shelf-Test; Manually Configurable Test Time and Voltage							
SYSTEM								
Efficiency	Line Mode 94.5%; ECO Mode 98%				Line Mode 95.5% ECO Mode 98%			
Alarm	Battery Mode, Low Battery, Fans Fault etc.							
Surge Protection	IEC60664-1							
Insulation Resistance	> 2M (500V DC)							
Dielectric Strength	2820V DC, No ARC in 1 Min							
IP Rating	IP 20							
EMI	EN62040-2							
EMS	IEC61000-4-2 (ESD) | IEC61000-4-3 (RS) IEC61000-4-4 (EFT) | IEC61000-4-5 (Surge)							
COMMUNICATIONS								
RS-232/RS-485/ Dry-Contacts	Support Windows 98/2000/2003/XP/Vista/2008/Windows 7/8/10							
SNMP (Optional)	Power Management form SNMP Manager and Web Browser							
ENVIRONMENTAL								
Operating Temperature	0°C ~ 50°C							
Storage Temperature	-25°C ~ 70°C							
Humidity	0 ~ 95% RH @ 0~40°C (Non-Condensing)							
Noise Level	60dB		65dB		70dB		75dB	
PHYSICAL								
Dimension WxDxH (mm)	Without Packing	800x860x1700		1210x860x1950		2380x860x1950		
	With Packing	900x950x1950		1300x950x2200		1300x950x2200(x2)		
Weight (Kg)	Net	790	830	1355	2090	2300	2690	
	Gross	820	880	1480	2200	2500	2800	
Transfer type	Sync Mode No Break Async Mode : <5 ms							
Retransfer Time	Sync Mode No Break Async Mode : Retransfer Inhibited							
Primary Components	Static Switch (SCR-SCR module)							
Manual Bypass	Provided							

* Specifications are subject to change without prior notice.

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

Online UPS
Industrial Grade
MPS - IND REG
10 KVA - 6MW

Application:

Industries like Automobile, Mining, Manufacturing, Packaging Industries, Metro rail, Industrial automation, Infra automation, Health care, Aviation, Defence, Telecom, Networking, Medical Equipments

FEATURES

- Full IGBT technology and electronic PFC, ensuring 0.99 input PF and THDi<3%, high performance DSP technology with double conversion high efficiency upto 95.5% and ECO mode for low running costs and saves energy.
- Front access to all critical components for easy maintenance.
- Built-in inverter transformer for DC/AC galvanic isolation and protection for industrial type critical loads.
- High regenerative power handling
- Include backfeed protection for operator safety and saves installation costs.
- Hot connection / disconnection of parallel units.
- Accurate battery management providing ripple current minimization charge current / voltage control as per batteries manufacturers specifications and automatic / manual battery test for maximum battery expected life.
- Fully compliant with all international product standards for maximum quality guarantee.

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Technical Specification

Oil Cooled Voltage Stabilezers

Capacity	3 KVA to 2000 KVA Air Cooled Servo Voltage Stabilizer
Input Voltage Range*	A) Range 1 : 295 V-465 V B) Range 2: 340V-480 V C) Range 3 : 360 V-460 V
Output Voltage	380/400/415 V + 1% Set
Input Frequency	47-53 Hz
Control Type	Digital-Micro controller based
Correction Speed*	70 V per second
Reset	Manual / Auto Reset with time delay and programmable
Protections	A) Electronic over & under voltage trip with time delay for input & output B) Electronic overload protection and short circuit protection upto 30 KVA through MCB and the Manual bypass is built in. Above 30 KVA MCB/MCCB is an optional. C) Surge Arrester/RF suppressor (OPTIONAL) F) Input phase to phase D) Phase reversal protection and cut off G) Frequency cut off protection E) Load Current in all the phases H) Frequency
Metering Digital Type (Class1 Accuracy with full Scale ± 1)	A) Input phase to neutral B) Input phase to phase C) Output phase to neutral D) Output phase to phase E) Load Current in all the Phases F) Frequency
Audio Alarm	For tripping conditions
Nature of Cooling	ONAN
Effect of Power Factor	Nil
Waveform Distortion	NII
Annunciation Panel	Non Latching LED indications with dual colour for Over load Latching Conditions
Efficiency	> 98%
Cabinet Colour	Siemens Grey
Provision of Cabling	Input and Output terminations with provisions for fixing cable glands
Servo Motor Drive	Rugged AC step synchronous motor
Operating Temperature	0~45^{0} C

Air Cooled Servo Control Voltage Stabilizers

Capacity	3-200KVA
Input Voltage Range*	A) Range 1 : 295 V-465 V B) Range 2 : 340V-480 V C) Range 3 : 360 V-460 V
Output Voltage	380/400/415 V + 1% Set
Input Frequency	47-53 Hz
Control Type	Digital-Micro controller based
Correction Speed*	70 V per second
Reset	Manual / Auto Reset with time delay and programmable
	A) Electronic over & under Voltage trip with delay for input & output B) Electronic overload protection and short circuit protection upto 30 KVA through MCB and the Manual bypass is built in. Above 30 KVA MVB/MCCB is an optional. C) Surge Arrester/RF suppressor (OPTIONAL) F) Neutral failure protection D) Phase reversal protection and cut off G) Frequency cut off protection' E) Single phase prevention and cut off H) Earth neutral voltage cut off protection
Metering Digital Type (Clss 1 Accuracy with Full Scale ± 1)	A) Input phase to neutral B) Input phase to phase C) Output phase to neutral D) Output phase to phase E) Load Current in all the phases F) Frequency
Audio Alarm	For tripping conditions
Nature of Cooling	Natural air cooled upto 150 KVA & Forced air cooled above 150 KVA
Effect of power Factor	Nill
Waveform Distortion	Nill
Annunciation Panel	Non Latching LED indications with dual colour for Over load Latching Conditions
Efficiency	>98%
Cabinet Colour	Dark Grey
Provision of Cabling	Input and Output terminations with provisions for fixing cable glands
Servo Motor Drive	Rugged AC step synchronous motor
Operating Temperature	0~45^{0}C

* Range can be customised to customer requirement

Custom models available on request

All specifications are subject to change

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

Servo Controlled Voltage Stabilizer

3-500 KVA

FEATURES

- No potentiometer adjustments
- All parameters can be modified using the keypad
- in the front panel
- Set input voltage band
- Set output voltage
- Set output voltage sensitivity
- Output over / under voltage cut-off
- Input over / under voltage cut-off
- Input voltage / under voltage cut-off
- Over load cut-off
- Trip time delay adjustments with variable setting
- Manual and auto start facility
- Output start and stop facility

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

- Air Cooled Servo Stabilizer Ranging from 3 to 150 KVA
- Oil Cooled Servo Stabilizer Ranging from 10 KVA to 2000KVA (Optional Custom build product)
- Our Products range is 1 phase & 3 Phase Servo stabilizer air and oil cooled balanced type and unbalanced type & low voltage from former Control transformers. Isolation transformer (K-1 to K-20) We also manufacture the transformer and servo stabilizer as per customer requirement. The core Value of the company are to deliver high quality expectation.

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

MPS SOLAR INVERTER WITH ENERGY STORAGE

Hybrid Solar power systems

1 to 12.5 kW

SPECIAL FEATURES

- Multiple 32 bit DSP controllers
- Battery independent operation
- True Bi-directional Solar Inverter
- Higher Array voltage capacity optionally available.
- Inbuilt charge controller
- MPPT- Achieved through Incremental Conductance Algorithms
- Battery charging through Grid up to 100%
- Selectable Priority feature (Solar-Battery-Grid) / (Solar-Grid- Battery)
- DC fan for low power consumption
- In built isolation transformer for galvanic isolation
- 128 x 64 Graphics display.
- Variable fan speed - for increased reliability, results into lesser dust suction inside the cabinet
- Net Metering Facility (Power Export) available (Model -1 OOOE)

MPS SGTU SERIES - HYBRID SOLAR

1 kw- 60kw

FEATURES

- Transformer-Less design and compact design
- Mimic LCD Display
- IP65 Industrial protection class
- Optional Remote monitoring through GPRS/Wifi Kit
- MPPT Efficiency > 99%
- Wide Voltage Range for Synchronisation
- Maximum Efficiency > 98%
- Wide Frequency Range for Synchronisation (45-55Hz)

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

MPS-ON GRID SERIES

10KW / 15KW / 20KW /
30KW / 50KW / 60KW

- **Desing :**
- Max PV Voltage upto 1000V
- 2 MPPT 10~20KW, 3 MPPT 30~60KW
- High efficiency up to 98.0%~98.6%
- Smaller and Lighter
- DC Fuse optional
- String monitoring optional
- Ip65 protection
- Easy Installation
- Reactive power controller
- Digital controller
- DC/AC Surge protection
- Type SPD optional

- **Certification :**
- TUV
- CE
- VDE 0126
- VDE4105
- PEA/MEA
- IEC 62109
- IEC 61000
- IEC 61727
- IEC 61683
- IEC 62116

GRID-TIE INVERTER WITH ENERGY STORAGE - HYBRID SOLAR SOLUTIONS

MPS- GT- SERIES

1 kw - 150 kw

GRID-TIE INVERTER WITH BATTERY BACKUP

- Pure sine wave output
- Local Load Consumption and Export to grid
- Can be programmed supply priority for Solar, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes Like On-Grid, Off-Grid and On-Grid with Battery Backup
- Parallel operation up to 6 units available for 3kw/4kw/5kw & 10kw Models (Optilonal)
- Communication - RS - 232, Modbus, SNMP & GPRS (Optional)Power

One Hybrid Inverter is a flexible and intelligent inverter which utilizes Solar power, AC Grid and Battery power source to supply continuous power to Load. It's a simple and smart solar power storage system with grid export facility for Customers to either store energy into a battery and can be use in night or use for self consumption depending on demands. Priority for power source can be programmed and set up through smart software. During night time or power outages, it will automatically extract power from the battery source. In this way, it will reduce dependence on the Grid power.

MPS SOLAR INVERTER WITH ENERGY STORAGE

MPS- 1000S

1 to 3 kW

SPECIAL FEATURES

- 18 bit DSP m'ltrollens
- High efficiency
- Truo Bi-cliredionel Soler I ~Netter
- Hlgtler Anay valtag& capacity optionally available
- Inbuilt MPPT charge controller
- Scllectable source feature - Grid / Battory
- DC fan for low power ccmsumpllon
- Inbuilt Isolation transformer for galvanic isolation

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SERVICES

Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

SUPPORT

SITE INSPECTION, INSTALLATION SUPERVISION.

We perform a comprehensive check of the UPS environment to ensure safety and fault-free operation.

Our technical experts give manufacturer's recommendations to the site engineer or electrical contractors, and supervise the UPS installation before load power - up.

SITE TEST, COMMISSIONING.

Our Service Engineers conduct rigorous site tests and full setting-up of the UPS system before going live. They also configure the UPS according to your requirements.

Commissioning operations for all UPS are carried out by qualified engineers to guarantee seamless start-up.

After the final handing over of the UPS system, installation report is delivered to you.

TRAINING

TRAINING

We offer on-site training to ensure your equipment's safe and efficient operation.

Troubleshooting courses are also available in our-plants for intensive hands-on practice on UPS training equipment.

MAINTENANCE

PREVENTIVE MAINTENANCE

Electronic equipment and power systems, such as UPS, contain life-limited components and parts that must be replaced according to the manufacturer's specifications.

To ensure optimal performance and to protect your critical application from potential downtime, it is crucial to perform preventive maintenance operations on a regular basis and replace parts when needed. Our Service Contracts with PM include cleaning, UPS measurements, functional tests, technical reports if required, battery health checkup and software upgrades. A Preventive Maintenance Plan is one of the most cost-effective actions that can preserve your initial investment and ensure your business continuity.

CORRECTIVE MAINTENANCE, EMERGENCY CALL

In the event of an Emergency Call, our engineers and spare-parts stocks strategically located as close as possible to your location, provide an intervention time with 24/7/365 assistance.

After connecting a laptop to your UPS, a very powerful diagnostic software helps our engineer to identify the fault, thus ensuring short MTTR [Mean Time to Repair].

Corrective actions are performed such as part replacement, adjustments to return the UPS system back to normal operation.

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Meenakshi Power Solutions

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MPS - Electric Car / Two Wheeler Charging Solutions

FEATURES

- Smart metering
- Cellular capability
- Network connectivity

Lithium-ion Batteries

- High energy density
- Relatively low self-discharge
- Low Maintenance

Manufacturers & Distributors:

Online UPS System | Harmonic Filters | Power Saving Solutions | Solar Power Systems
Batteries | Electric Car & Two Wheeler Charging Solutions

Services offered:

AMC | Rental | Power Quality Audit | Battery Impedance Test | Stabilizers & D.G sets
All kinds of Power Solutions and IT Product Solutions

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Meenakshi Power Solutions

ADDING LIFE TO YOUR POWER

Online UPS

MPS - 8th Generation
UPS with Lithium-ion
Battery for long life
Modular UPS
10 KVA - 10 MW

Application:

Server, Bank, Industry equipment, IT equipment,
Communication system & other networking equipment

Performance attribute	Lithium-ion	Lead-acid (VRLA)
Specific energy (Energy density)	High, 70 - 260 Wh/kg	Low, 15 - 50 Wh/kg
Life span (calendar)	10 - 15 years	4 - 6 years # of
charge/discharge cycles*	>1,000	200-400
Recharge time	½ - 1 hr	6 - 12 hours

Lithium-ion batteries offer several advantages over traditional lead acid batteries. Despite the benefits, the use of lithium-ion batteries in uninterruptable power supplies (UPSs or battery backups) is relatively new with valve-regulated lead acid batteries still the dominant energy storage technology used today. This will likely change as Li-ion costs continue to decrease, the benefits become more widely known, and manufacturers make their UPSs compatible. This paper serves to answer common questions about Li-ion batteries and their use in UPSs.

Manufacturers & Distributors:

Online UPS System | Harmonic Filters | Power Saving Solutions | Solar Power Systems
Batteries | Electric Car & Two Wheeler Charging Solutions

Services offered:

AMC | Rental | Power Quality Audit | Battery Impedance Test | Stabilizers & D.G sets
All kinds of Power Solutions and IT Product Solutions

Online UPS
MPS-IFSeries,1-10KVA

Application:
PC, Servers, Networking Equipments, Security Systems, Medical Equipments etc.

Online UPS Data Centre Solutions
Rack Mountable, 30KVA-480KVA

Application:
Data centre, Medical, Industry, Telecom, Infrastructure, Security, Defence, Transport

Online UPS MPS - Modular
SC1100/3100 1-40 KVA

Application:
Data centre, Medical, IT, BT, BPO, Telecom, Infrastructure, Security, Defence, Transport

Online UPS
MPS - IV4,6-40 KVA

Application:
PC, Workstation, Printer, Servers, Medical Equipment's, AC, lighting Application, Freezer, Lift Application, 2 - Level IGBT Technologies

Online UPS
MPS - Hi - Ness - 800 KVA
120 KVA - 8 MW up to 10 MW

Application:
Data centre, Medical, Industry, Telecom, Infrastructure, Security, Defence, Transport

Online UPS Industrial Grade
mPower+ 10 KVA-1MW

Application:
Offset printing press, IT industry, Banks, Medical Labs, Manufacturing Industry

Online UPS MPS - SC Series,
Modular UPS 10-480 KVA

Application:
Server, Bank, Industry equipment, IT equipment, Communication system & other networking equipment

Online UPS Industrial Grade
MPS - IND REG 10 KVA - 6MW

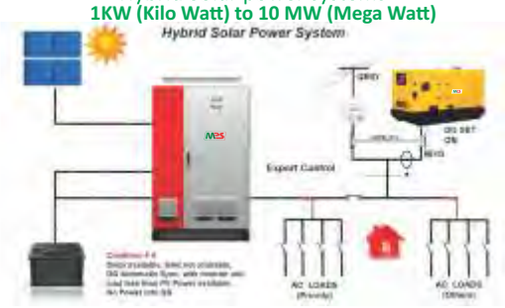
Application:
Industries like Automobile, Mining, Manufacturing, Packaging Industries, Metro rail, Industrial automation, Infra automation, Health care, Aviation, Defence, Telecom, Networking, Medical Equipments / CNC Applications & Regenrative Applications and lift Applications

Servo Controlled Voltage Stabilizer
3-500 KVA, CVCF, CVT

Servo Controlled Voltage Stablizer Oil Cooled

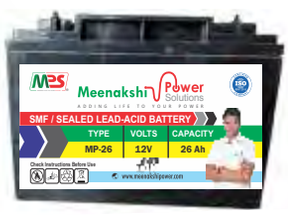
MPS SOLAR INVERTER WITH ENERGY STORAGE
Hybrid Solar power systems
1KW (Kilo Watt) to 10 MW (Mega Watt)

1KW (Kilo Watt) to 10 MW (Mega Watt)



Range of MPS Batteries

SMF 4.5 Ah to 200 Ah
Tubular 40 Ah to 250 Ah



MPS
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Partners in our Growth...

and many more...

www.meenakshipower.com

Meenakshi Power Solutions

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Customer services

Reliable

Directly present in 12 locations across India to ensure quick support, a team of 70 factory qualified engineers are available 24/7/365 to support your UPS system to ensure availability to the most critical loads.

Excellent

MPS competitive edge lies in its ability to provide high value added UPS systems and service for customers.

For MPS, creating value means providing solutions with low energy consumption. The MPS Group also Provides all products required for electrical and digital building installations, particulary as an integrated system, with solution to fit customer needs.

Tailor - Made

We offer a complete range of specific solutions and serices to meet customer requirements

- Technical pre-sales support
- UPS sizing and solutions
- Supervision of installation, testing and commissioning.
- Operator training
- Site audits / Power quality audit
- Warranty extension offers
- Annual maintenance contract
- **Rentals - UPS, Batteries, Servo Control Voltage stabilizers**
- **Demo Units are available**

PAN INDIA PRESENCE

MPS
ADDING LIFE TO YOUR POWER ®

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GLOBAL PRESENCE

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