

# MS Series 10KVA - 500KVA

## Modular Online UPS Power Melody Star Series

MS Star Series 10KVA - 500KVA (3ph in / 3ph out)



### Key Features:

- UPS with Modular Design and Hot Swappable.
- IGBT Modules Rather Than Discrete Components are Applied in the Power Module.
- Intelligent Module and System Protection Design.
- Double DSP Controller for Individual Power Module.
- Strong Load Adaptability for Linear and Nonlinear Load.
- Large Touch Screen LCD with Plenty of Information.
- Incredible Low Noise System Design.
- Digital Paralleling Technology, Very Low Circle Current Between Modules.
- Digital Control for the Whole Parts Including Rectifier, Inverter, Charger and Discharger.
- Independent Charger for Batteries, Intelligent Battery Management System.
- Totally front Access, Top and Bottom Cable Connection.
- Inbuilt Power Distribution for Input and Output Connection.
- Each Individual Module is Configured with Independent Controller, Avoid Single Point Failure Risk.

**Shenzhen UPSen Electronic CO., Ltd.**

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# Technical Specification:

Capacity	MS 10-500KVA	
<b>Main Input</b>		
Input Voltage	380V / 400V / 415V ( Line to Line )	
Input Frequency	50 / 60 Hz	
Power Factor	> 0.99	
Input Current THD (Total Harmonic Distortion)	< 3%	
Input Voltage Window	-40% ~ +25%	
Frequency Window	40 - 70Hz	
<b>Battery</b>		
Battery Voltage	± 240VDC	
Charger Power	20% * Power	
Charger Voltage Precision	1%	
<b>Bypass</b>		
Bypass Voltage	380V / 400V / 415V, Three Phase	
Bypass Voltage Window	-20% - +15%, Full Load, Settable	
Bypass Overload Capabiltiy	150%, Long Time Operation; 180%, Shut Down After 10 Minutes; > 180%, Shut Down After 200ms	
<b>Output</b>		
Output Voltage	380V / 400V / 415V, Three Phase	
Voltage Precision	± 0.5% ( Balance Load ), ± 1% ( Unbalance Load )	
Voltage THD (Total Harmonic Distortion)	THD< 1%( Linear Load ), THD< 3%( Nonlinear Load )	
Power Factor	0.9 / 1	
Phase Tolerance	120° ± 0.5° ( Balance and Unbalance Load )	
Crest Factor	3:1	
Overload Capabiltiy	110%, Transfer to Bypass After 1 hour; 125%, Transfer to Bypass After 10 minutes 150%, Transfer to Bypass After 1 minute; > 150%, Transfer to Bypass After 200ms	
<b>System</b>		
System Efficiency	Normal Mode: 95% ECO Mode: 99%	
Battery Mode Efficiency	95%	
Display	LCD+LED, Touch Screen and Keyboard	
IP Class	IP20	
Interface (Communication Ports )	RS232, RS485, Dry contacts, SNMP card, EPO, Generator Interface	
Installation / Connection	Top or Bottom Cable Connection	
Operation Temperature	0-40C	
Storage Temperature	-25~70C	
Relative Humidity	0-95% ( Non-Comdensing )	
Noise(dB)	< 55dB	
Weight(KG)	6-Module Cabinet	150KG
	10-Module Cabinet	180KG
	Module	10KVA: 20KG; 15KVA: 21KG; 20KVA: 22KG
Dimension W*D*H(mm)	6-Module Cabinet	600*900*1600
	10-Module Cabinet	600*900*2000
	Module	400*600*133 (10KVA / 15KVA / 20KVA)

\*Specification are Subject to Change Without Prior Notice