



# ModI SERIES

## 10kVA

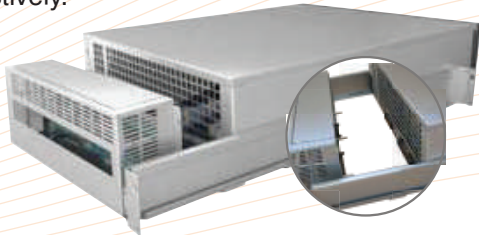
### Features

#### • True double-conversion

ModI Series is applied online conversion technology to effectively insulate against network disturbances and enable higher load uptime.

#### • Modular connector box with hot-swappable design for ease of power expansion, installation and maintenance

ModI Series is applied patented modular design to enhance the flexibility of power expansion and maintenance. By simply removing four screws on the connector box, power module can be easily removed out from cabinet without disconnecting all wires. It also simplifies the process of maintenance and replacement to reduce the maintenance cost effectively.



#### • Standard 19" form factor with tower/rack convertible Design

Designed for easy adjustment, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS. 19" form factor suits for the standard rack so it optimizes cost expenses to meet the power demands.



#### • Parallel operation with common battery

Compared to general parallel system, multiple ModI UPSs can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance.

#### • Adjustable battery design

The number of connected batteries can be adjusted flexibly based on different power demands.

#### • DSP technology guarantees high reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance

#### • Output power factor 1.0

For critical applications, the modular UPS with output power factor 1.0 ensures higher efficiency and advanced performance.

#### • 50Hz/60Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

#### • ECO mode operation for energy saving

ECO mode improves the efficiency up to 97% to cut energy usage & cost. In this mode, loads are supplied by the main directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

#### • Emergency power off function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

#### • Generator compatible

This UPS can accept generator as power source and still convert perfect power to the connected loads.

#### • Customized system

Multiple ModI UPSs can easily form a complete system based on customer's demand. Please contact sales directly for the details.



Customized system			
Cabinet Height	17U		
Number of power module	4	2	1
Number of battery module	0	2	3

\* This customized system will be embedded 1U centralized communication unit



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## Technical Specification

MODEL	ModI 10 (3/3)	ModI 10 (3/1)	ModI 10 (1/1)
Phase	3 phase in / 3 phase out	3 phase in / 1 phase out	1 phase in / 1 phase out
Capacity	10000 VA / 10000 W		
Parallel Capability	10		
<b>INPUT</b>			
Nominal Voltage	3 x 360 VAC/380VAC/ 400VAC/415 VAC (3Ph+N+PE)		208VAC/220VAC/230VAC /240 VAC (1Ph+N+PE)
Voltage Range	190-520VAC (3-phase) @ 50% load 305-478VAC (3-phase) @ 100% load		110-300 VAC @ 50% load 176-276 VAC @ 100% load
Frequency Range	40 Hz ~ 70 Hz		
Power Factor	≥ 0.99 @ 100% load		
THDi	< 4% @ full linear load		
<b>OUTPUT</b>			
Output Voltage	360 VAC/380VAC/400 VAC/ 415VAC(3Ph+N)	208*/220/230/240VAC (L+N)	
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1 (max.)		
Harmonic Distortion	≤ 2%THD (Linear Load) ; ≤ 3%THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	zero	
	Inverter to Bypass	zero	
Waveform (Batt. Mode)	Pure Sinewave		
<b>SYSTEM</b>			
AC Mode	94%		93.5%
ECO Mode	97%		
Battery Mode	At Full Load	93%	92%
	Peak	93.5%	92.5%
LCD/LED Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
<b>BATTERIES</b>			
Battery Voltage	± 12V / 9Ah		
Battery Numbers	16 ~ 20 pcs (adjustable) x 2		
Nominal Voltage	+/-192V (12V x 32 pcs)		
Maximum Voltage	+/- 240V (12V x 40 pcs)		
Minimum Voltage	+/-192V (12V x 32 pcs)		
Charging Voltage	± 218V		
Typical Recharging Time	9 hours recover to 90% capacity		
Charging Current	± 4A		
<b>COMMUNICATIONS / MANAGEMENT</b>			
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		
<b>STANDARDS / APPROVALS</b>			
Compliances	CE		
<b>ENVIRONMENT</b>			
Operating Temperature	0 - 40°C		
Operating Humidity	0-95 % (non-condensing)		
Acoustic Level at 1m	Less than 55dB		
<b>PHYSICAL PROPERTIES</b>			
Dimensions (W x D x H) mm	418 x 678 x 129 (3U)		
Net Weight (kg)	20.5		

\*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.

- \* Changes to the specification contained in this document, and to prices are reserved; so are errors and omissions. Only order confirmations and technical documentation by KOSS UPS is binding.
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**MODULAR UPS**  
- Single Phase & Three Phase



**POWER LOGIC**