

# ModV SERIES

## 200kVA - 600kVA

**MODULAR UPS**  
- Three Phase

ModV Series 3-in 3-out UPS, adopts advanced 3-level inverter technology and reliable redundancy design from components to the whole machine. It has the advantages of high efficiency, high power density, easy expansion, capacity expansion as required and small occupied area, and provides reliable, stable and pure green power for loads.

### Product Description

- Modular capacity: 50kW
- Cabinet capacity: 200/300/400/500/600kVA
- Rated voltage: 380/400/415Vac (L-L)
- Rated frequency: 50/60Hz
- Topology: online double conversion UPSction

### High Reliability

- Wide input voltage range -60%~ +25% with high grid adaptability
- Hot-swappable function ensures uninterrupted operations during maintenance
- Dual system control card prevents single failure point
- Intelligent fan control and redundant design for energy saving: Parallel expansion up to four systems without requiring additional hardware

### High Performance

- High efficiency in online mode (>96%) reduces heat dissipation and limits power consumption costs
- THDi≤3% and input power factor 0.99 reduce the pollution to grid and reduce upstream investment costs
- Full rated power (kVA=kW) to maximize power availability
- Efficiency>99% in ECO mode gives significant cost reduction
- Advanced power module sleep mode, prolong the service life of power module
- Allow 100% three phase unbalance load
- Frequency converter function (60Hz to 50Hz or 50Hz to 60Hz)
- Self-load test function without load enables on-site commission
- Small footprint, 300kW only covers 0.5m<sup>2</sup>

### Intelligent Management

- Fault Trace Management (FTM) for convenient failure analysis (80ms waveform record)
- 7-inch HMI enables more parameters setting and status showing
- Intelligent battery charging system, prolong the service life of batteries
- Intelligent battery management, 28-46 pcs batteries per group allow customers to get the faulty battery out instead of replacing it
- Common battery bank sharing in parallel system



Power Modular 30kW, 60kW



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## Technical Specification

MODEL	ModV 200	ModV 300	ModV 400	ModV 500	ModV 600
Power Module	50KVA / 50KW				
<b>INPUT</b>					
Rated Voltage (VAC)	380 / 400 / 415				
Voltage Range (VAC)	L:L 138 ~ 485				
Input Wiring	3Ph + N + PE				
Input Frequency (Hz)	40 - 70				
Bypass Voltage Range (VAC)	-15% (-20%/-30% optional) ~+15%(+10% /+20% optional)				
Power Factor	≥0.99				
THDi	<5% (nolinear, full load)				
Phase	3Φ4W+PE				
Battery (VDC)	±192 (±168~±276 settable)	±240 (±180~±276 settable)			
Charging Current (A)	N×10 Maximum (N = the number of power module)				
<b>OUTPUT</b>					
Capacity (kVA)	200	300	400	500	600
Power Factor	1				
Phase	3Φ4W+PE				
Waveform	sine wave				
Voltage (Vac)	L-L:380,400,415 ±1%				
Frequency (Hz)	50/60± 0.2% (battery mode)				
Three Phase Difference	≤1°				
THDv	≤1% (linear load, full load); ≤4% (nolinear load, full load)				
Static Bypass Transfer Time	0				
System Efficiency	96%				
Parallel Mode	Advanced no-master-slave parallel technology, N+1 redundancy				
Overload Capacity	106-110% load for 60 minutes, 111%-130% load for 10 minutes, 131%-150% load for 1minute, 151%~200% load for 200ms.				
<b>ENVIRONMENT</b>					
Approvals	CE (EN62040-2, IEC62040-1)				
Operating Temperature (°C)	0~40				
Storage Temperature (°C)	-40~70				
Relative Humidity	0~95%, no condensation				
Communication Function	RS485, RS232, dry contact (SNMP optional)				
Noise (dB)	<70				
<b>PHYSICAL PROPERTIES</b>					
Power Module Dimension (W×D×H) mm	500 × 700 × 130				
Dimension (W×D×H) mm	600 × 860 × 2000		1200 × 860 × 2000		
Weight (kg)	Cabinet	224	236	427	
	Bypass Module	23	27	27	31
	Power Module	33			

- \* Changes to the specification contained in this document, and to prices are reserved; so are errors and omissions.
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