

UM Modularized UPS (100kVA power module)

Product Introduction

Um modularized UPS adopts on-line transfer technology to eliminate influence from main power. With 100kVA power module on 1200kVA cabinet, supports flexible capacity expansion, easy maintenance, saves more space for data center. Suitable for media-large power supply application, ideal solution for coming high density computility center.

Application

- Internet data center
- Large cloud data center
- Headquarter data center
- Disaster recovery data center



Features and Values

◆ High adaptability



- Rough main grid application, suitable for Diesel Generator input.
- 138~485Vac main power voltage input, 40-70Hz frequency input.
- Exquisite design, digital control, high reliability.

◆ High efficiency



- Efficiency to 97%, save cost for client.
- PFC to 0.99, THDI<3%, green and energy-saving.
- Intelligent teamwork management under low load, assures redundancy and high efficiency.

◆ High availability



- Hot-swap modular design on power module, bypass module, control module, etc.
- No battery neutral connection, 30-50 quantity, precision configuration and intelligent battery management.
- Visual management from 10-inch touch display with multiple communication for local and remote management.

Specification

Capacity		600kVA	1200kVA
Power module capacity		100kVA	
Main power input	Type	3L+N+PE	
	Voltage	380V/400V/415V	
	Frequency	40-70Hz	
	Power factor	> 0.99	
	THDi	THDi < 3% (100% linear load)	
	Voltage range	138 ~ 485VAC; 305 ~ 485VAC 100% Output, 138 ~ 305VAC Output Drop	
Bypass	Frequency range	40-70Hz	
	Voltage	380V/400V/415V	
	Voltage range	220Vac Positive: Maximum 25% (Optional +10%, +15%, +20%) 220Vac Negative: Maixmum -45% (Optional -10%, -20%, -30%)	
	Power walking in	Support	
	Backfeed protection	Support	
Battery	DG input	Support	
	Voltage range	360-600VDC (30-50 Pcs 12V Battery, default 40 Pcs)	
	Power factor	1	
	Rated voltage	380V/400V/415V	
	Rated frequency	50 / 60Hz	
Output	Voltage accuracy	±1.0%	
	Dynamic response	<5% (0% - 100% -0% Step load)	
	Dynamic restore time	<20ms (0% - 100% -0% Step load)	
	THDv	<1% (Linear load) ,<2% (Unlinear load)	
	Overload	110%, 1 hour to bypass; 125%, 10 min to bypass; 150%, 1 min to bypass; >150%, 200 ms to bypass	
System	Current peak ratio	3:1	
	Efficiency	Normal mode 97%, Eco mode 99%	
	IP Grade	IP20	
	Communication	CAN、RS485、Network、Dry contator、Intelligent slot、Temperature sensor	
	Operating Temp.	0 ~ 40°C	
Dimension	Storage Temp.	-25°C ~ +55°C	
	Humidity	0 ~ 95%	
	Noise	≤68dB	
	Cabinet	800mm×1000mm×2000mm (W×D×H)	1600mm×1000mm×2000mm (W×D×H)
	Power module	750mm×442mm×130mm (W×D×H)	
Weight	Cabinet	440kg	825kg
	Power module	50kg	