PLUG & POWER

UM Modularized UPS（50kVA power module)

Product Introduction

Um modularized UPS adopts on-line transfer technology to eliminate influence from main power. Entire modularized design, capacity expansion from 50-800KVA as requirement, easy maintenance, high reliability and great intelligence which provides stable power supply solution in middle-large data centers or communication stations for customers.



Application

- Financial, telecommunication, traffic, energy, power grid, government and enterprise headquarter data center
- Internet data center
- Large cloud data center

Features and Values

Modularized design

- Entire modularized design on hot-swapped power module, bypass module and control module, capacity expansion as requirement, easy maintenance.

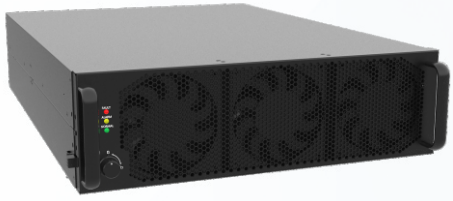
High reliability

- Redundant power module and control module design without single malfunction risk.
- Wide range applicable for main power input: 138V~485V; 40~70Hz

High efficiency

- Efficiency more than 96% to save power cost for customers.

High efficiency while low load: intelligent control of duty shift rule for power module with assurance of power module redundant on-line and entire efficiency improved.



High applicability

- Entire modularized design on hot-swapped power module, bypass module and control module to reduce maintenance time.
- Output power factor=1 with output ability improved. No capacity drop with capacitive load and inductive load which input power factor > 0.5.
- Battery quantity adjusted from 30-50 pieces. Reuse original battery while equipment room optimization. No necessary to change entire battery group when one single cell is malfunction which saves cost for customers.
- Real-time information showed in 7' displayer. multiple communication interface and protocol support for centralized monitoring system.

Specification

Capacity		200kVA	300kVA	400kVA	500kVA	600kVA	800kVA
Power module capacity		50kVA					
Main power input	Type	3L+N+PE					
	Voltage	380V/400V/415V					
	Frequency	50/60Hz					
	Power factor	>0.99					
	THDi	THDi<3%（100% linear load）					
	Voltage range	138～485VAC；305～485VAC 100% Output，138～305VAC Output Drop					
	Frequency range	40-70Hz					
Bypass	Voltage	380V/400V/415V					
	Voltage range	Configurable, 220V: +10%, +15%, +20%, 25%Max; 230V: +10%, +15%, +20%Max; 240V: +10%, +15%Max; All: -10%, -20% ,-30%, -45%Min					
	Frequency range	50/60Hz ±1Hz，±3Hz，±5Hz					
Battery	Voltage	360-600VDC（30-50 Pcs 12V Battery, Even number configuration, default 40 Pcs）					
Output	Power factor	1					
	Rated voltage	380V/400V/415V					
	Rated Frequency	50/60Hz					
	Voltage accuracy	±1.0%					
	Dynamic response	<5% (0% - 100% -0% Step load)					
	Dynamic restore time	<20ms (0% - 100% -0% Step load)					
	THDv	<2%（Linear load）,<3%（Unlinear load）					
	Overload	110%,1 hour to bypass; 125%, 10 min to bypass; 150%, 1 min to bypass; >150%, 200 ms to bypass					
	Frequency accuracy	50/60Hz±0.1%					
	Track range	Configurable，±0.5Hz-±5Hz，Default ±3Hz					
	Track frequency	Configurable，0.5Hz/S-±3Hz/S，Default 0.5Hz/S					
	Current peak ratio	3:1					
System	Efficiency	Normal mode 96%，Eco mode 99%					
	IP Grade	IP20					
	Communication	RS485，Dry contactor，SNMP，EPO					
	Operating Temp.	0-40℃					
	Storage Temp.	-25℃～70℃					
	Humidity	0-95%					
Dimension (W*D*H) (mm)	Cabinet	600×850×2000		1200*850*2000			2400*850*2000
	Power module	440×620×130（3U）					
Weight (kg)	Cabinet	230	260	600	650	720	1060
	Power module	32					