



HP Modular Series UPS 40-60KVA

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Online Transformerless UPS series

Power range : 40 ~ 1200kVA (3-Level PF: 1.0)

Mode: 3 phase input and 3 phase output

Module: 40/50/60kVA

Modular design

- All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated
- Power module, Bypass module, Monitoring module, ECU control module, all these modules are hot-swappable

High reliability

- Wide input voltage range, line voltage range is 138-485V, UPS will derate to 40% when input voltage is below 305V
- UPS adopts multiple digital bus and redundancy parallel control system, making sure the whole system keep online if any single circuit fail
- The UPS will keep on single or parallel working, if any module fail
- Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust

Green and power saving

- High input power factor, it is up to 0.99
- 3-level topology design, efficiency is up to 96%
- THDi < 3% (100% linear load)
- The UPS will work in sleeping mode when the load is very small

LBS function

- LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system

VRLA&Lithium battery supportable

- Compatible with VRLA or lithium battery

Parallel redundancy function

- Support parallel expanded operation: maximum is 8 units
- Support sharing batteries for the UPS in parallel

Strong load capability

- Output power factor is 1.0, UPS can supply power to 100% unbalanced load
- High adaptability for load, it can connect full inductive load or capacitive load

Intelligent management

- With 7 inches (Standard) and 10 inches (Optional) colorful touch LCD screen
- Support recording and exporting history logs and fault logs
- Support SNMP, RS232, RS485, BMS, Dry contact interface
- Support upgrading FW&SW on line
- EPO & REPO function

Compatible with generator

- Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator



Technical Specifications:

Module Model	HP 3300E-RM-40	HP 3300E-RM-50	HP 3300E-RM-60
Cabinet Model	HP 3300E-80/120/200/320	HP 3300E-200/300/400/500/600/800/1000	HP 3300E-300/600/840/1080/1200
Cabinet capacity	80kVA ~ 320kVA	200kVA ~ 1000kVA	300kVA ~ 1200kVA
Module capacity	40kVA	50kVA	60kVA
Max. number	2/3/5/8	4/6/8/10/12/16/20	5/10/14/18/20

INPUT

Nominal voltage	380/400/415Vac, (3Ph+N+PE)
Operating voltage range	138~305Vac for 40% Load; 305~485Vac for 100% Load;
Operating frequency range	40Hz~70Hz
Power factor	≥0.99
Harmonic distortion (THDi)	≤3% (100% Linear load)
Bypass voltage range	Max. voltage: 220V: +25% (Optional +10%, +15%, +20%) 230V: +20% (Optional +10%, +15%) 240V: +15% (Optional +10%) Min. voltage: -45% (Optional -10%, -15%, -20%, -30%)
Bypass frequency tracking range	±10%
Power walk in	Support
Generator input	Support

OUTPUT

Rated voltage	380/400/415Vac, (3Ph+N+PE)
Power factor	1.0
Voltage regulation	±1%
Output frequency	Synchronize with input, when the input frequency > ±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1Hz)
Bat. mode	(50/60±0.1%)Hz
Crest factor	3:1
Harmonic distortion (THDv)	≤2% with linear load; ≤4% with nonlinear load
Efficiency	Up to 96%

BATTERY

Battery voltage	360Vdc ~ 600Vdc
Battery type	VRLA / Li
Power module charge current	20A (Max.)

SYSTEM FEATURES

Transfer time	Utility to Battery: 0ms; Utility to bypass: 0ms
Overload	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter
Inverter mode	30°C: 135% for long term; 40°C: 125% for long term; >1000°, 100ms
Bypass mode	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately
Overheat	Alarm and Switch off
Low battery voltage	Upon Power On and Software Control
Self-diagnostics	Support
Backfeed protection	Shut down UPS immediately (Turn to bypass optional)
EPO (Optional)	Advanced Battery Management
Battery	Complies with EN62040-3
Noise suppression	Line Failure, Battery Low, Overload, System Fault
Audible & visual alarms	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault
Status LED & LCD display	Input, Output, Battery, Command, Setting, Maintenance
Reading on the LCD display	Input, Output, Battery, Command, Setting, Maintenance
Communication interface	RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)

ENVIRONMENTAL

Operating temperature	0°C ~ 40°C
Storage temperature	-25°C ~ 55°C
Humidity range	0 ~ 95% (Non condensing)
Altitude	< 1000m, derating required when > 1000m
Noise level	< 66dB

PHYSICAL

Dimension W × D × H	UPS cabinet (S/F)	80/120kVA: 600 × 850 × 1200mm 200/320kVA: 600 × 850 × 2000mm	200/300/400kVA: 600 × 850 × 2000mm 500/600kVA: 1200 × 850 × 2000mm 800/1000kVA: 2000 × 850 × 2000mm	300kVA: 600 × 850 × 2000mm 600kVA: 1200 × 850 × 2000mm 840/1080kVA: 2000 × 850 × 2000mm 1200kVA: 2200 × 850 × 2000mm
	Power module	440 × 620 × 130mm		
Net weight	UPS cabinet	80kVA: 155kg; 120kVA: 165kg; 200kVA: 270kg; 320kVA: 290kg	200kVA: 270kg; 300kVA: 290kg; 400kVA: 310kg; 500kVA: 650kg; 600kVA: 720kg; 800kVA: 980kg; 1000kVA: 1080kg	300kVA: 290kg; 600kVA: 720kg; 800kVA: 980kg; 1080kVA: 1080kg; 1200kVA: 1200kg
	Power module	33kg	34kg	35kg

STANDARDS

Safety	IEC/EN 62040-1, IEC/EN 62477-1
EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)

S: Without or only with one maintenance bypass breaker

F: With mains, bypass, maintenance bypass and output breakers

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design