



High Frequency Online UPS

HP3116C PLUS 1KR - HP3116C PLUS 3KR
Single-phase grounding

• Range of applications



**Medical
Equipment**



**Office
Automation**



**Production
Equipment**



**Securities
System**



**Electronic
& Telecom**



**Aeronautics
& Astronautics**



**Army
Technology**



**Industrial
Automatic Control**

● Features:

- Bigger charge current Maximum 12A, charge faster & Adjustable between 1-12A.
- The output power factor can reach 1.0.
- The new topology, high power density circuit is better for noise and surge protection.
- Shipping cost saving with it's perfect structure by smaller dimension.
- Efficiency upto 95.5%, Higher efficiency same power with less electric bill, higher efficiency, same power, same backuptime with smaller battery.
- Standard & long backup are common with same PSDR&Control pcb helps to reduce stock & easy management.
- Output voltage 208V 220V 230V 240V are adjustable.
- Pure sine wave output, online zero conversion time.
- Wide input frequency range, adjustable from 50/60±6 Hz
- With output short-circuit protection and overload protection.
- Using LCD display screen, status parameters are clear at a glance.
- RS232 communication interface is applied.
- Double-sided circuit board design for higher safety and reliability.
- The screen can set various of common technical parameters.
- It can be equipped with power monitoring software to enable UPS network and remote monitoring.

● Function

- When connect UPS with AC power. UPS automation Power On Bypass mode .
- When battery low ups shutdown, when AC recovery UPS will automation Power On
- When Power Off UPS will bypass

Model Name	HP3116C PLUS 1KR	HP3116C PLUS 2KR	HP3116C PLUS 3KR
General			
UPS Topology	Online Double Conversion		
Energy Saving Technology	Online ECO Mode Efficiency		
Active PFC Compatibility	Yes		
Physical			
Form Factor	Rackmout		
Input			
Generator Compatibility	Yes		
Input Voltage Range (Vac)	110 ~ 300, 110 ~ 176, 280 ~ 300 (power limited)		
Input Frequency (Hz)	50/60±6		
Input Frequency Detection	Yes		
Input Power Factor	≥ 0.99		
Input Connector Type	IEC C14		IEC C19
Output			
Capacity (KVA)	1	2	3
Capacity (KW)	1	2	3
On Battery Waveform	Pure sine wave		
On Battery Voltage(s) (Vac)	208±1%, 220±1%, 230±1%, 240±1%		
Output Voltage Setting	Configurable		
On Battery Frequency (Hz)	50±0.1%, 60±0.1%		
Output Frequency Setting	Configurable		
Power Factor	1		
Overload Protection	Internal Current Limiting, Circuit Breaker, Fuse		
Overload Protection (Line Mode)	102% ~ 110% load: 30min, 110% ~ 130% load: 10min, 130% ~ 150% load: 30s, >150% load 200ms		
Overload Protection (Battery Mode)	102% ~ 110% load: 1min, 110% ~ 130% load: 10s, 130% ~ 150% load: 3s, >150% load 200ms		
Overload Protection (Bypass Mode)	>150% load : Immediately		
Harmonic Distortion (Linear Load)	THD < 3%		
Harmonic Distortion (Non-linear Load)	THD < 5%, PF=0.8		
Outlet(s) - Total	4	4	4
Outlet Type	IEC Universal x 4		
Outlet (s) - Battery & Surge Protected	4	4	4
Typical Transfer Time (ms)	0		
Battery			
Battery	12V9Ah	12V7.2Ah	12V9Ah
Quanlity	2	6	6
Runtime at Half Load (min)	9	8	9
Runtime at Full Load (min)	4	4	4
Charge Current (A)	1A	(1A~12A) Configurable	(1A~4A) Configurable
Typical Recharge Time (Hours)	Reaches 90% charge within 2 to 4 hours.		
Battery Type	Sealed lead-acid		
Machine Efficiency			
AC mode	Full load 94.5% - 220VAC	Full load 95.5% - 220VAC	
DC mode	Full load 89.5% - 24VDC	Full load 91.5% - 72VDC	
Surge Protection & Filtering			
Surge Suppression (Joules)	660		
EMI/RFI Filtration	Yes		
Management & Communications			
LCD Panel	Load, battery capacity, mains mode, battery mode, bypass mode, fault indication		
HID Compliant USB Port(s)	1		
Serial Port	RS232		
Emergency Power Off (EPO) Port	YES		
Power Management Software	YES		
SNMP/HTTP Remote Monitoring	Yes-with option card SNMP		
Physical Size - UPS Module			
UPS Dimensions (D*W*H) (mm.)	380*440*88 ± 2%	550*440*88 ± 2%	550*440*88 ± 2%
Height of UPS in rack (U)	2		
UPS Weight (kg.)	11kg ± 2%	22.222kg ± 2%	24.14kg ± 2%
Environmental			
Operating Temperature (độ C)	Temperature 0-40°C (non-condensing)*		
Operating Relative Humidity (Non-condensing) (%)	20-90% relative humidity		
Certifications			
Certifications*	CE-EMC, CE-LVD, EN/IEC 61000,EN/IEC 62040,GB/T4943,YD/T 1095,TLC etc		