

# HP9116C/HP9316 1-20K Plus Series

## High Frequency Online UPS

### 1-20KVA

Personal  
Computers



Network



Industry



Medical



Telecom



Local area  
Networks



Security



#### ► Product snapshot:

Model: 1-20KVA

Nominal voltage: 220/230/240/380VAC

Nominal frequency: 40~70Hz

Output Power factor: 0.9

#### Typical application

Data centre, bank station, network , communication equipment, office, automatic equipment, monitor equipment, control system

## Highly flexible and extendable

### Battery can choose

- Battery voltage can be choice depend on capacity , can satisfy different requirement.
- Convenience to get more back up time and lower system invests
- Convenience to save cost of battery
- Intelligent battery monitors

### Charge current can be adjust

- Standant charge current 4A
- Support more discharge time and more capacity battery for 8A charger

### Input topology design

- Support three phase input or single phase input for three phase UPS
- Super wide input voltage and frequency range suitable for bad power electirc environment
- Digital control DSP technology and best power component make the system safe and reliable

## Multifunction friendly design

### Advanced parallel technology

- Stable parallel control technology make sure current sharing to 1%
- Select trip technology can avoid and isolation system fault then improved system availability
- Flexible extension capacity and redundance management that can satisfy all kinds of requirements
- Support maximum 3 units for parallel working

### Flexible strategy

- On line mode provides higher system availability
- High efficiency mode provides more economic operation
- Frequency conversion provides more stable output

## Higher function

### Output power factor up to 0.9

- Output power factor is 0.9 that mean can take more load, if you take same load that can get higher reliability.

### Input power factors up to 0.99

- Three phase input model support three phase PFC , input THDI<5%
- Output voltage regulation 1%, frequency regulation 0.1%, parallel current sharing 1%.

### The efficiency up to 94%

- Efficiency up to 93.5%when take the 30%load
- ECO mode efficiency up to 98%

## UPS Power Solutions Expert

## HP9116C Plus Series Technical Specifications

Model	HP9116C 1-3KVA PLUS					
	1KT	1KT-XL	2KT	2KT-XL	3KT	3KT-XL
Rated Power	1KVA/0.9KW		2KVA/1.8KW		3KVA/2.7KW	
Rated Voltage	220/230/240VAC					
Rated Frequency	40-70 Hz					
<b>Input</b>						
Voltage Range	115~300VAC					
THDi	< 10%					
Power Factor	>0.98					
<b>Output</b>						
Voltage Regulation	220±2%VAC					
Frequency Regulation	50/60 Hz±0.05Hz					
Power Factor	0.9					
Voltage Distortion	Linear load<4% Non-linear load<7%					
Overload Capability	110%~150% for 47-25 sec; 150%~200% for 25 -300ms; >200% for 200m					
Current Crest Ratio	3 : 1					
Transfer Time	0ms (AC mode→Battery mode)					
Efficiency(on line mode)	> 89%		> 90%		> 90%	
<b>Battery</b>						
DC Voltage	24 VDC	36 VDC	48 VDC	72 VDC	72 VDC	96 VDC
Recharge Time	7hrs to 90% of capacity					
Recharge Current	1A	6A	1A	6A	1A	6A
<b>Display</b>						
LCD	Display input/output Voltage, Frequency, Battery voltag, Battery capacity, Loading rate.					
<b>Communication</b>						
Interface	Smart RS232、SNMP card (optional) 、USB (optional)					
<b>Environment</b>						
Operation Temperature	0 ~ 40℃					
Humidity	20~90% (Non-condensing)					
Storage Temperature	-25℃ ~ 55℃					
Sea Level Elevation	<1500m					
Noise Level (1m)	<45dB			<50dB		
<b>Physics Characteristic</b>						
Dimensions :(Wx D x H)mm	145X345X229			192X393X328		

STANDARD: Conform to GB/IEC regulation : EMC: GB7260.2/IEC62040-2 GB/17626.2~5/IEC61000-4-2~5 SAFETY:GB4943

Note: Product specifications are subject to change without further notice.

## UPS Power Solutions Expert

## HP9116C Plus Series Technical Specifications

Model	HP9116C 6-10KVA PLUS			
	6KT	6KT-XL	10KT	10KT-XL
Rated Power	6KVA/5.4KW		10KVA/9KW	
Rated Voltage	220VAC			
Rated Frequency	40-70 Hz			
<b>Input</b>				
Voltage Range	120~275VAC ( $\pm 3$ VAC)			
THDi	<5%			
Power Factor	$\geq 0.99$			
<b>Output</b>				
Voltage Regulation	220 $\pm 1\%$ VAC			
Frequency Regulation	50/60 Hz $\pm 0.2$ Hz			
Waveform	Pure sine wave			
Power Factor	0.9			
Voltage Distortion	Linear load <2% Non-linear load <4%			
Overload Capability	105%~125% for 1 min ; 125%~150% for 30 s; >150% for 0.5 s			
Efficiency	>94%			
Current Crest Ratio	3:1			
Transfer Time	0ms (AC mode $\rightarrow$ Battery mode)			
<b>Battery</b>				
DC Voltage	180VDC	192/240VDC	180VDC	192/240VDC
Recharge Time	5hours to 90% of capacity			
Recharge Current	1A	4.2A	1A	4.2A
<b>Display</b>				
LCD	Display input/output Voltage, Frequency, Battery voltage, Battery capacity, Loading rate.			
<b>Communication</b>				
Interface	Smart RS232, SNMP(Optional),USB (Optional)			
<b>Environment</b>				
Operation Temperature	0~40 $^{\circ}$ C			
Humidity	20~90% (Non-condensing)			
Storage Temperature	-25 $^{\circ}$ C~55 $^{\circ}$ C			
Sea Level Elevation	<1500m			
Noise Level (1m)	<55dB			
<b>Physics Characteristic</b>				
Weight(KG)	59	14	62	16
Dimensions :(Wx D x H)mm	248X500X565	212X500X420	248X500X565	212X500X420

STANDARD: Conform to GB/IEC regulation : EMC: GB7260.2/IEC62040-2 GB/17626.2~5/IEC61000-4-2~5 SAFETY:GB4943

Note: Product specifications are subject to change without further notice.

## UPS Power Solutions Expert

## HP9116C/HP9316C Plus Series Technical Specifications

Model	HP9116C/HP9316C 10-20KVA PLUS		
	10KT-XL	15KT-XL	20KT-XL
Rated Power	10KVA/9KW	15KVA/13.5KW	20KVA/18KW
Rated Voltage	220VAC/380VAC 3phase with ground		
Rated Frequency	40-70 Hz (50/60 Auto-sense)		
<b>Input</b>			
Voltage Range	Single phase: 120 ~ 275VAC ( 176-275VAC full load ) Three phase: 209-475VAC ( 304-475VAC full load)		
Power Factor	>0.95(Three phase)	≥0.99	
<b>Output</b>			
Voltage Regulation	208/220/230/240VAC (±1%)		
Frequency Regulation	50/60HZ±0.05 Hz		
Power Factor	0.9		
Voltage Distortion	Linear load <2% ,Non-Linear load <5%		
Overload Capability	105% ~ 125% for 10min; 125% ~ 150% for 30s,>150% for 500 ms		
Current Crest Ratio	3:1		
Transfer Time	0ms (AC mode→Battery mode)		
<b>Battery</b>			
DC Voltage	192VDC	192/216V/240VDC	
Recharge Current	4A	4A (8A optional)	
<b>Display</b>			
LCD	Display input/output Voltage, Frequency, Battery voltag, Battery capacity, Loading rate.		
<b>Communication</b>			
Interface	Smart RS232、SNMP card (optional) USB (optional)		
<b>Environment</b>			
Operation Temperature	0~40℃		
Humidity	0~95% (Non-condensing)		
Storage Temperature	-25℃~55℃		
Sea Level Elevation	<1500m		
Noise Level (1m)	<55dB		
<b>Physics Characteristic</b>			
Weight(KG)	16.9	31	
Dimensions :(Wx D x H)mm	212X420X500	248X565X500	

STANDARD: Conform to GB/IEC regulation : EMC: GB7260.2/IEC62040-2 GB/17626.2~5/IEC61000-4-2~5 SAFETY:GB4943

Note: Product specifications are subject to change without further notice.