



*High Frequency Online UPS*

**HP3116C PLUS 1KR XL - 3KR XL**  
**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 XL                                                                       | HP3116C PLUS 2KR XL      | HP3116C PLUS 3KR XL     |
|--------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| General                                          |                                                                                           |                          |                         |
| UPS Topology                                     | Online Double Conversion                                                                  |                          |                         |
| Energy Saving Technology                         | Online ECO Mode Efficiency                                                                |                          |                         |
| Active PFC Compatibility                         | Yes                                                                                       |                          |                         |
| Physical                                         |                                                                                           |                          |                         |
| Form Factor                                      | Rackmount                                                                                 |                          |                         |
| 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 Frequecy (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                                          |                                                                                           |                          |                         |
| DC Voltage                                       | 36VDC                                                                                     | 72VDC                    | 96VDC                   |
| Quanlity                                         | 3                                                                                         | 6                        | 8                       |
| Typical Recharge Time (Hours)                    | Reaches 90% charge within 2 to 4 hours.                                                   |                          |                         |
| Charge Current (A)                               | (1A~12A) Configurable                                                                     |                          |                         |
| 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% - 36VDC                                                                   | Full load 91.5% - 72VDC  | Full load 91.5% - 96VDC |
| 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%                                                                           | 380*440*88 ± 2%          | 380*440*88 ± 2%         |
| Height of UPS in rack (U)                        | 2                                                                                         |                          |                         |
| UPS Weight (kg.)                                 | 5.63kg ± 2%                                                                               | 6.55kg ± 2%              | 6.86kg ± 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                      |                          |                         |