



## Host Power 10 to 500 kVA Uninterruptible Power System

### True Galvanic isolation design

The ultimate UPS solution – providing uninterrupted power and protection against noise, lightning, and leakage current.

### Designed to protect against a floating neutral

Ensures the safety of personnel and UPS.

### Advanced digital signal processing

Increased reliability and efficiency through the use of DSP, IGBT and advanced switching components.

### Modular design for ease of troubleshooting and maintenance

Quick change components speed repairs and cut down time.

### Redundant Multi-CPU design allows the software and hardware to work together as a team

This results in the highest reliability possible.

### The most intelligent and safe battery test circuitry available today

- No risk of AC output failure during test of failed batteries
- Maximizes battery bank protection when leakage or a ground fault is present

### Individualized inverter support on each phase

Maintains specified characteristics, even with 100% unbalanced load.

### Intelligent, fully temperature compensated battery charger

- Prolongs battery life
- Selectable high charging capacity for large-capacity extended backup time battery banks

### Hi-Tech fan speed control

Increases fan life expectancy while reducing audible noise

### Optimum design for heat dissipation

The control and power circuits are separated to reduce operating temperature for high reliability under adverse operating conditions.

### Battery Power start feature

The unit can be started with or without the AC mains using battery power alone eliminating large surge currents.

### A selection of optional accessories to meet your particular needs are available

- Remote control panel
- 3-Phase PC monitoring software
- Battery monitoring module
- 3-Phase SNMP card
- Emergency Power Off Switch
- Input harmonic filter – reduces T.H.D. (Total Harmonic Distortion) of the input current



**ETL Certified to  
UL 1778  
up to 160 kVA**

**Applications**  
Computer Room  
Production Facility  
Testing Lab  
Telecommunications  
Industrial  
Government  
Public Building  
Schools  
Healthcare  
Cruise & Cargo Ship  
Banking  
Printing Facility



# HOST POWER Specifications

**Power Rating:** 10, 20, 30, 40, 50, 60, 80, 100, 120, 160 kVA (also available upon request 200, 240, 300, 400, 500 kVA)

**Input Voltage:**

208Y/120 V or 480Y/277 VAC  
(-15% to +15%)

**Output Voltages:**

208Y/120 V or 480Y/277 VAC

**Output Frequency (Inverter Operation):** 60 Hz  $\pm$  1 Hz

**Voltage Regulation:**  $\pm$ 1% at 100% unbalanced load

**Output Voltage Wave Form:** Sine-Wave <2% THD.

**Crest Factor:** 3:1 Typical

**Surge Protection:** The UPS will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A and B.

**Isolation:** True galvanic isolated

**Battery:** Sealed maintenance-free VRLA or Long Life Battery (available upon request)

**Recharge Time:** Varies per KVA and conforms to UL924, UL1778.

Battery	Sealed Lead Acid VRLA
No. of batteries	29 (12V)
Nominal Voltage	348 VDC
Low Battery Shut Down	295 VDC
Float Charge	390 VDC

**Environmental:**

**Humidity:** 0 - 90% (non-condensing)

**Operating Temperature:**

UPS: 0° to 40°C. (32° - 104°F)  
Battery: 20° to 30°C. (68° - 86°F)  
higher temperature batteries are available for special order

**Storage Temperature:** -20° to 60°C. (-4° - 140°F) electronics only.

**Altitude:** Up to 5,000 ft

**Cabinet Size (UPS only):**

**10-60kVA:** 34"W x 63"H x 31.5"D  
**80-160kVA:** 55.5"W x 63"H x 31.5"D  
**200-320kVA:** 86.5"W x 63"H x 31.5"D  
**400kVA:** 133"W x 71"H x 39.5"D  
**500kVA:** 178"W x 71"H x 39.5"D

## STANDARD FEATURES

- 6 pulse or 12 pulse controlled rectifier (12 pulse for 80 kVA & up)
- Input main circuit breakers
- Data and events LCD display
- Built-in Transient Voltage Surge Suppressor
- EMI suppression
- PWM methodology (DSP)
- Isolation transformer at output for True galvanic isolation
- Modular design to facilitate ease and speed of service
- Cold start function: UPS can be started with battery power only without an AC source
- Multi-CPU design: Several CPUs are employed in control circuit and critical functions are designed with parallel redundancy for added reliability
- Protection against misuse: circuit breaker on/off sensor, and power supply sensor, the user cannot cause UPS damage by operator error.
- Intelligent charger: UPS will automatically recharge with temperature compensation.
- Intelligent battery test
- Redundant power supply
- RS-232 / RS-485 for various accessory options
- 8 Dry contacts: INVON, OVL, FAULT, SS, BYPASS, BACK-UP, BATL, COM.
- External Shutdown- two pairs of terminals for UPS shut down
- DB9 Connection-4 of RS-485 & 1 of RS-232:

The following are some connection examples of optional modules

- CNR21 (RS-232): UPSCOM-Software for PC Monitoring, SNMP card
- CNR9 (RS-485): DCMAN-Battery Monitoring Module
- CNR10 (RS-485): UPSCAN-Remote Control Panel
- CNR12,13,14,15,17,18,19 (RS-485): UPSCALL- Auto Dialing Module
- CNR11: for transferring RS-485 into RS-232

KVA/KW	Input - Output Voltages	MODEL NUMBERS	Max. Battery (AMP)	BTU/Hr	**Weights (lbs)	
					UPS	Battery Cab
10 / 8	208/120 - 208/120 480/277 - 480/277	HP010B05ATT3 HP010H09ATT3	348	2218	840	
					840	
20 / 16	208/120 - 208/120 480/277 - 480/277	HP020B05ATT3 HP020H09ATT3	348	4436	1083	
					1083	
30 / 24	208/120 - 208/120 480/277 - 480/277	HP030B05ATT3 HP030H09ATT3	348	6483	1260	
					1260	
40 / 32	208/120 - 208/120 480/277 - 480/277	HP040B05ATT3 HP040H09ATT3	348	8871	1414	
					1414	
50 / 40	208/120 - 208/120 480/277 - 480/277	HP050B05ATT3 HP050H09ATT3	348	10236	1525	
					1525	
60 / 48	208/120 - 208/120 480/277 - 480/277	HP060B05ATT3 HP060H09ATT3	348	11942	1724	
					1724	
80 / 64	208/120 - 208/120 480/277 - 480/277	HP080B05ATT3 HP080H09ATT3	348	15695	2276	
					2276	
100 / 80	208/120 - 208/120 480/277 - 480/277	HP100B05ATT3 HP100H09ATT3	348	18425	2984	
					2984	
120 / 96	208/120 - 208/120 480/277 - 480/277	HP120B05ATT3 HP120H09ATT3	348	22178	3138	
					3138	
160 / 128	208/120 - 208/120 480/277 - 480/277	HP160B05ATT3 HP160H09ATT3	348	29684	3868	
					3868	
* 200 / 160	208/120 - 208/120 480/277 - 480/277	HP200B05ATT3 HP200H09ATT3	348	39238	5746	
					5746	
* 240 / 192	208/120 - 208/120 480/277 - 480/277	HP240B05ATT3 HP240H09ATT3	348	44356	6229	
					6229	
* 300 / 240	208/120 - 208/120 480/277 - 480/277	HP300B05ATT3 HP300H09ATT3	348	55616	7293	
					7293	
* 400 / 320	208/120 - 208/120 480/277 - 480/277	HP400B05ATT3 HP400H09ATT3	348	78476	9061	
					9061	
* 500 / 400	208/120 - 208/120 480/277 - 480/277	HP500B05ATT3 HP500H09ATT3	348	98948	10166	
					10166	

Consult Factory for Specific Battery Runtime

\* Units are available only upon request.

For Voltages other than listed replace

B05 = 208Y/120 I/O    B09 = 208Y/120 Input, 480/277 Output  
H09 = 480Y/277 I/O    H05 = 480Y/277 Input, 208Y/120 Output

Specifications are subject to change without prior notification.

