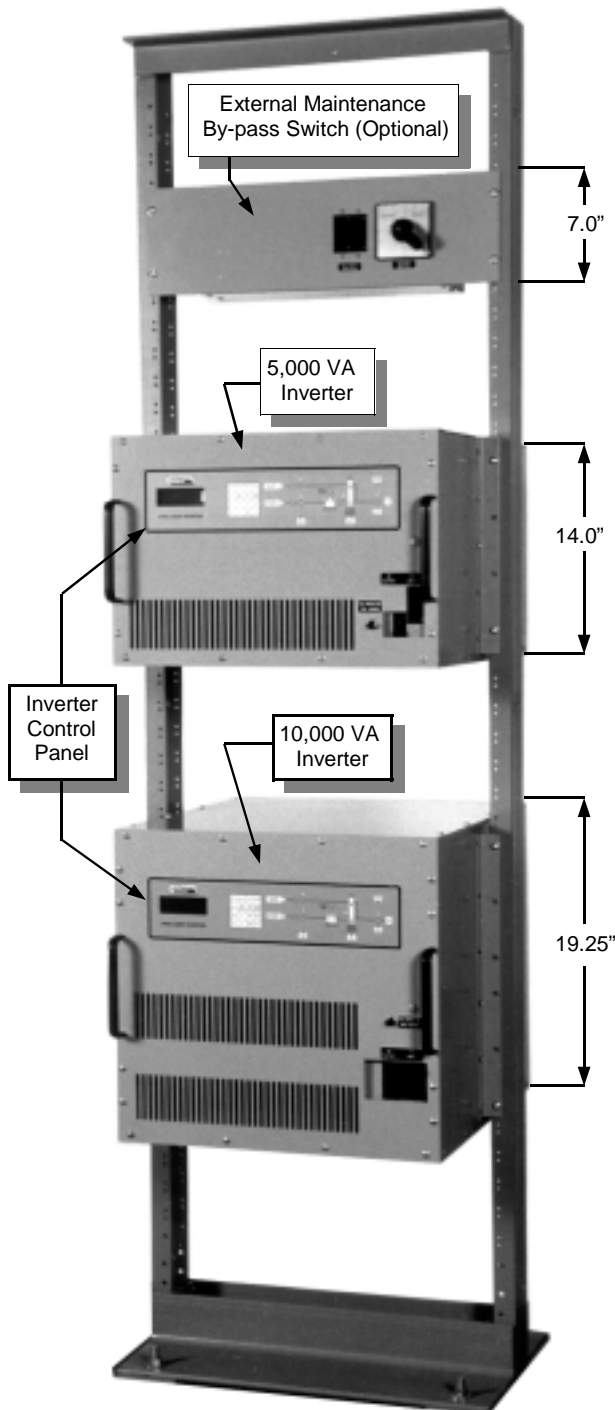




# HPi Series Inverters

## 5 & 10 kVA 220Vac 50 Hz Output 120 VDC Input



The illustration above shows relative sizes of the 5 KVA, 10 KVA Inverters and optional External By-pass Switch  
This is not a typical installation



### Standard Features

#### Microprocessor Control Circuit

- Provides comprehensive yet user friendly interface between the Inverter and the operator
- LCD Digital Meter and Alarm display
- Industrial style LED Mimic Diagram
- Control programs can be field upgraded
- RS232 Communication Port option available

#### Power Circuit

- High frequency switching PWM technology, using IGBTs
- Pure Sine Wave AC output
- Low audible noise
- High efficiency
- Input Output isolation
- Powers virtually any load, compatible with Nonlinear and Active Power Factor Corrected AC Loads
- DC Input Circuit Breaker
- DC Input Pre-charge Switch
- AC Output Circuit Breaker

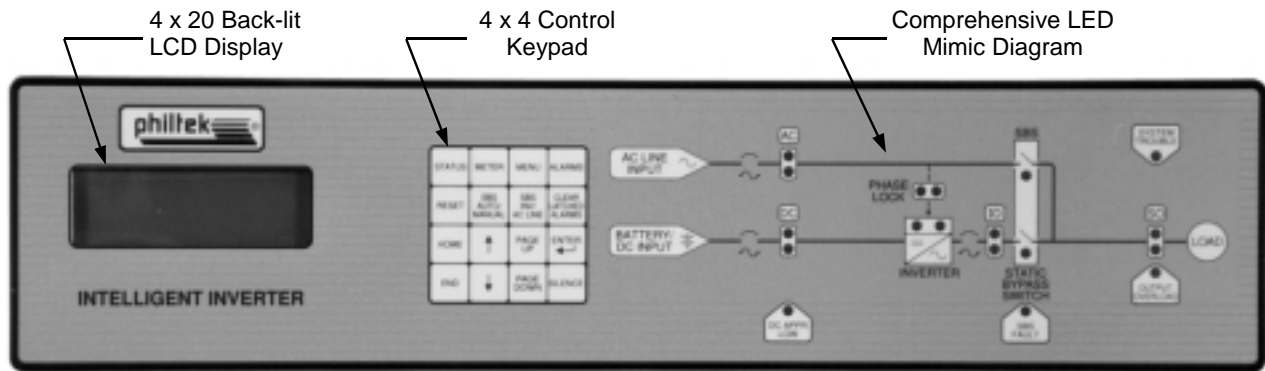
#### Integral Static Bypass Switch

- Output power fully rated
- Zero Break with 2 mSec detection time
- User configured to operate in the On-line ( Inverter preferred ) or the Off-line ( AC line preferred ) mode
- Provides economy operation when operated in the Off-line Mode
- Provides maximum Protection when operated in the On-line Mode

#### Packaging

- 23" Rack Mount, compact Design
- 5 KVA Inverter occupies only 14" or 8 RU, 10 KVA Inverter occupies only 19.25" or 11 RU
- Air intake at front and exhaust at rear , top and bottom clearances are not required
- Temperature Controlled Variable Speed Fans for cooling

**CSA Certified**



**Inverter Control Panel**

**Inverter Specifications** *(Subject to change without notice)*

**DC Input**

Nominal 120 V  
 Range 105 to 145 V  
 Current See Table  
 Noise feedback < 40 dBrc

**AC Output**

Power See Table  
 Connection 2 wires+ Gnd  
 Voltage 220 Vac 1 Phase 50 Hz  
 Regulation ± 1%  
 Dynamic Regulation:  
   100 % step load ± 4%  
   Recovery < 10 mSec  
 Efficiency 89 %  
 Distortion ( linear load ) < 1.0 % THD  
 Non Linear Load Capability Up to 100 %  
 Active P.F. Corrected Loads Compatible  
 Load Power Factor ( PF ) 0.7 to 1.0  
 Frequency Tolerance ± 0.1 % free running  
 Overload 120 % for 10 minutes  
 Synchronization:  
   Range ± 1.5 Hz  
   Rate 1 Hz per Sec

**Bypass AC**

Connection 2 wires + Gnd  
 Voltage 220 V 1 Phase 50 Hz  
 Current Same as output current

**Static Bypass Switch**

Transfer Time 2.5 mSec typical  
                   5 mSec maximum  
 Voltage Tolerance ± 10 %  
 Frequency Tolerance ± 1.5 Hz  
 Overload: 120 % for 10 Minutes  
               1000 % for 8 ms

**Metering**

Standard Output AC Volt and Amp  
 with \*EMD option \*System Output V , A & Hz  
                           \*Inverter Output V , A & Hz  
                           \*Bypass AC V , A & Hz  
                           \*DC Input V & A

**Environmental**

Temperature 0° C to 40° C  
 Humidity 95 % RH  
 Audible noise 50 dBA @ 1 meter typical  
 Cooling Forced Air with temperature  
               Controlled Fans

**Ordering Information**

Inverter Model #	Output Volt/Hz	Output VA @ 1.0 PF	Input Current @ 105 V DC	Dimensions W"x D"x H"	Weight Lbs.
HPI 5K-120-A	220/50	5,000 VA	54 Amp	23"x 22"x 14"	270 Lbs.
HPI 10K-120-A	220/50	10,000 VA	107 Amp	23"x 22"x19.25"	380 Lbs.

**Option Table**

Code	Option
<b>EMD</b>	Enhance Metering Display see *above
<b>MBSXR</b>	External Maintenance Bypass Switch Make before Break allows complete service with no power interruption Dimensions 23" W x 6" D x 7" H
<b>RS232</b>	RS 232 Communication Port allows remote control and diagnosis

For Example:

**HPI 10K-120-A-MBSXR-EMD**

Model No.

Options

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(Printed in Canada 299)