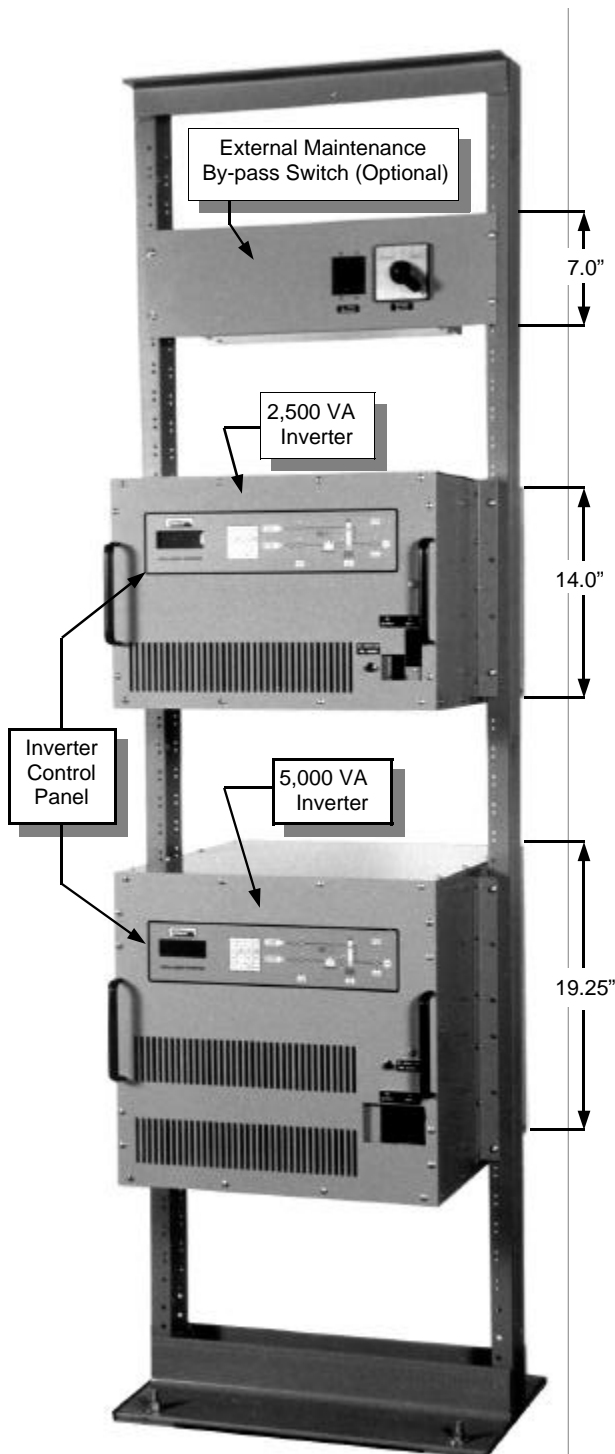




HPi Series Inverters

2.5 kVA & 5 kVA Output

24 VDC Input



The illustration above shows relative sizes of the 2.5 KVA, 5 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

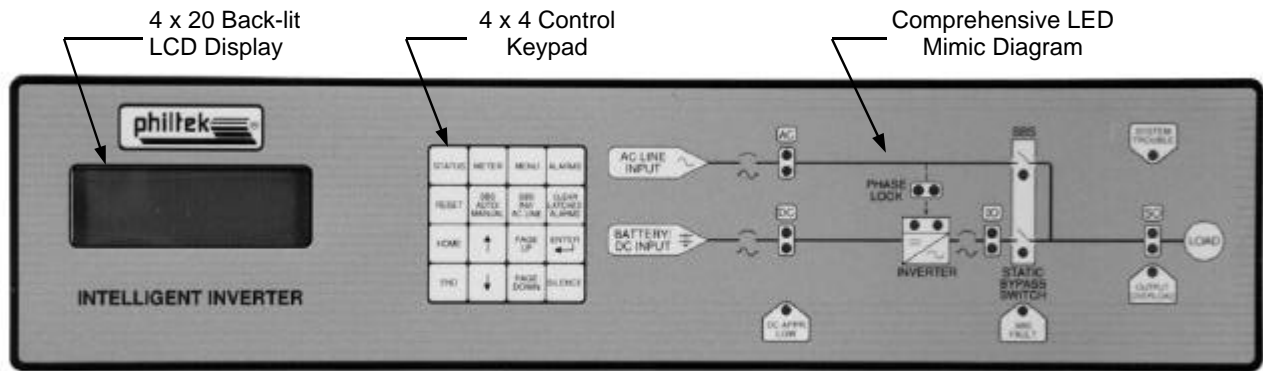
Integral Static Bypass Switch

- 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
- 2.5 KVA Inverter occupies only 14" or 8 RU, 5 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	24 V
Range	21 to 30 V
Current	See Table
Noise feedback	< 32 dBrc

AC Output

Power	See Table
Connection	2 wires+ Gnd
Voltage	120 Vac 1 Phase 60 Hz
Regulation	± 1%
Dynamic Regulation:	
100 % step load	± 4%
Recovery	< 8 mSec
Efficiency	80 % to 82%
Distortion (linear load)	< 1.0 % THD
Non Linear Load Capability	Up to 100 %
Active P.F. Corrected Loads	Compatible
Load Power Factor (PF)	0.8
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	120V 1 Phase 60 Hz
Current	Same as output current

Static Bypass Switch

Transfer Time	2 mSec typical 4 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 @ 0.8 PF	Input Current @ 42 V DC	Dimensions W"x D"x H"	Weight Lbs.
HPI 2.5K-24-N	120/60	2,500 VA	120 Amp	23"x 22"x 14"	180 Lbs.
HPI 5K-24-N	120/60	5,000 VA	250 Amp	23"x 22"x 19.25"	280 Lbs.

Option Table

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

For Example:

HPI 5K-24-N-MBSXR-EMD

Model No. Options

For More Information please Contact:

In Canada

In USA

Philtek Electronics Ltd.

Philtek Power Corp.

Tel: (604) 270-4642

Tel: (360) 332-7252

Fax: (604) 270-8343

Fax: (360) 332-7253

E-mail info@philtek.com

(Printed in Canada 1100)