

The logo for philtex, featuring the word "philtex" in a bold, lowercase sans-serif font. To the right of the text are three horizontal lines of varying lengths, with a registered trademark symbol (®) to the right of the longest line.

HPiX Series Inverters

**2 to 10 kVA,
120/240 Vac, 60 Hz Output
48 Vdc Input**



Standard Features

User Friendly Interface

- LCD with Status, Meter and Alarm screens.
- Industrial style LED Mimic Diagram.
- Nine button control keypad.
- 200 event Alarm History with date and time stamp.
- Four remote alarm contacts (user configurable).
- RS-485, 2-wire interface with Modbus protocol.
- RS-232 interface with Philtex protocol.

Power Circuit

- High frequency PWM switching technology, using IGBT's.
- Pure Sine Wave AC output.
- Low audible noise.
- High efficiency.
- Inverter Output isolation transformer provides galvanic isolation between DC and AC circuits.
- Powers virtually any load, compatible with Nonlinear and Active Power Factor Corrected AC Loads.
- Input and Output Circuit Breakers.
- Automatic DC Input Pre-charge circuit.

Integral Static Bypass Switch

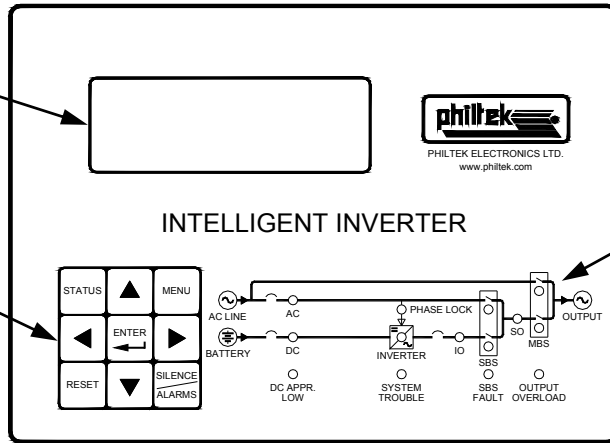
- Output power fully rated.
- Zero Break with 2 mSec detection time.
- User configured to operate in the Online (Inverter preferred) or the Offline (AC line preferred) mode.
- Provides maximum protection when operated in the Online Mode.
- Provides economy operation when operated in the Offline Mode.

Packaging

- 23" Rack mount design. Rack sold separately.
- 2 to 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, bottom and side clearances are not required.
- Temperature controlled variable speed cooling fans.

4 x 20 Backlit LCD Screen

3 x 3 Control Keypad



Comprehensive LED Mimic Diagram

Inverter Control Panel

Inverter Specifications *(Subject to change without notice)*

DC Input

Nominal 48 V
 Range 42 to 60 V
 Current See Table
 Noise feedback < 32 dBrc

AC Output

Power See table
 Connection 3 Wires + Ground
 Voltage 120/240 V, 1 Phase, 60 Hz
 Regulation $\pm 1\%$
 Dynamic Regulation:
 100 % step load $\pm 4\%$
 Recovery < 8 ms
 Efficiency $\geq 85\%$
 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 $\pm 0.1\%$ free running
 Overload 125 % for 20 minutes
 Synchronization:
 Range ± 1.5 Hz
 Slew Rate 1 Hz per sec.

AC Line Input

Connection 3 Wires + Ground
 Voltage 120/240 V, 1 Phase, 60 Hz
 Current Same as output current

Static Bypass Switch

Transfer Time Online Mode: 2 ms typical, 4.2 ms max
 Transfer Time Offline Mode: 8.4 ms maximum
 Voltage Tolerance $\pm 10\%$
 Frequency Tolerance ± 1.5 Hz
 Overload: 125 % for 20 Minutes
 1000 % for 8 ms

Metering

Standard SBS Output: V, A, Hz, KVA & KW
 Inverter Output: V & Hz
 AC Line Input: V & Hz
 DC Input: V, A & KW

Operating Environment

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	Output Current	Input Current	Base Dimensions	Approx. Weight
HPIX 2K-48-B	2,000 VA @ 0.8 PF	8.33 A/Line	45 A @ 42 Vdc	14"H x 20.5"W x 22"D	135 Lbs.
HPIX 3K-48-B	3,000 VA @ 0.8 PF	12.5 A/Line	67 A @ 42 Vdc	14"H x 20.5"W x 22"D	170 Lbs.
HPIX 5K-48-B	5,000 VA @ 0.8 PF	20.8 A/Line	112 A @ 42 Vdc	14"H x 20.5"W x 22"D	225 Lbs.
HPIX 10K-48-B	10,000 VA @ 0.8 PF	41.7 A/Line	224 A @ 42 Vdc	19.25"H x 20.5"W x 22"D	335 Lbs.

Option Table

Code	Option
MBSXR	External Rack mount Maintenance Bypass Switch. "Make before Break" allows complete service with no power interruption.
AL8	Four contacts added for a total of eight Remote Alarm Contacts.
SVW	Replaces the RS-232 port with an internal <u>Status-Via-Web</u> Ethernet device. Allows remote control and monitoring via Web Page, SNMP and Modbus TCP/IP. (Separate external SVW device also available)

For Example:

HPIX 10K-48-B+MBSXR+SVW

Model No.

Options

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