

The logo for Philtex, featuring the word "philtex" in a 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  
120 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

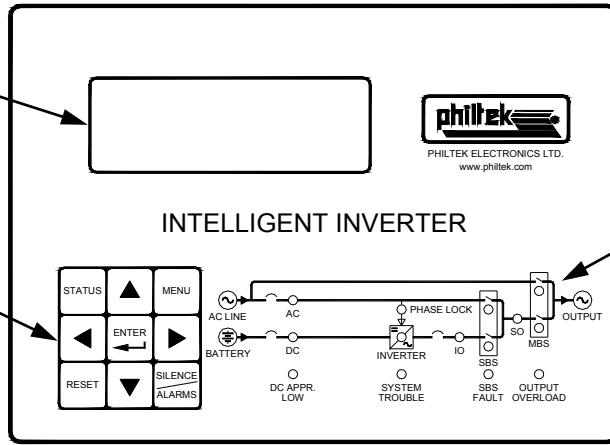
- Output power fully rated.
- Zero Break with 2 mSec detection time.
- User configured to operate in the Online ( Inverter preferred ) or the Offline ( AC line preferred ) mode.
- Provides maximum protection when operated in the Online Mode.
- Provides economy operation when operated in the Offline Mode.

### 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 120 V  
 Range 105 to 150 V  
 Current See Table  
 Noise feedback < 40 dBrc

**AC Output**

Power See table  
 Connection 3 Wires + Ground  
 Voltage 120/240 V, 1 Phase, 60 Hz  
 Regulation ± 1%  
 Dynamic Regulation:  
 100 % step load ± 4%  
 Recovery < 8 ms  
 Efficiency ≥ 90 %  
 Distortion ( linear load ) < 1.0 % THD  
 Non Linear Load Capability Up to 100 %  
 Active P.F. Corrected Loads Compatible  
 Load Power Factor ( PF ) 1.0  
 Frequency Tolerance ± 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 ± 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-120-B	2,000 VA @ 1.0 PF	8.33 A/Line	22 A @ 105 Vdc	14"H x 20.5"W x 22"D	120 Lbs.
HPIx 3K-120-B	3,000 VA @ 1.0 PF	12.5 A/Line	32 A @ 105 Vdc	14"H x 20.5"W x 22"D	150 Lbs.
HPIx 5K-120-B	5,000 VA @ 1.0 PF	20.8 A/Line	53 A @ 105 Vdc	14"H x 20.5"W x 22"D	200 Lbs.
HPIx 10K-120-B	10,000 VA @ 1.0 PF	41.7 A/Line	106 A @ 105 Vdc	19.25"H x 20.5"W x 22"D	335 Lbs.

**Option Table**

Code	Option
<b>MBSXR</b>	External Rack mount Maintenance Bypass Switch. "Make before Break" allows complete service with no power interruption.
<b>AL8</b>	Four contacts added for a total of eight Remote Alarm Contacts.
<b>SVW</b>	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-120-B+MBSXR+SVW**

Model No.

Options

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