



# HPiX Series Inverters

Without a Static Bypass Switch (NS Option)

2 to 10 kVA, 120 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 Philtek 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.
- NS option provides DC to AC conversion only (for operation without a bypass AC).

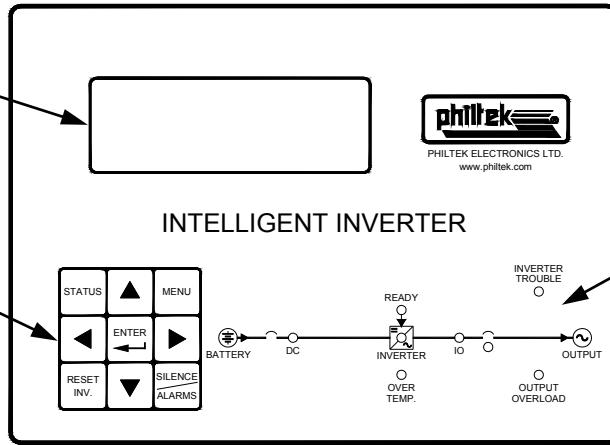


### Packaging

- 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

#### Metering

Standard

Inverter Output: V, A, Hz,  
 KVA & KW  
 DC Input: V, A & KW

#### AC Output

Power See table  
 Connection 2 Wires + Ground  
 Voltage 120 Vac, 1 Phase, 60 Hz  
 Regulation ± 1%  
 Dynamic Regulation:  
 100 % step load ± 4%  
 Recovery < 8 ms  
 Efficiency ≥ 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 ± 0.1 % free running  
 Overload 125 % for 20 minutes

#### Operating Environment

Temperature  
 Humidity  
 Audible noise  
 Cooling

0° C to 40° C  
 95 % RH  
 50 dBA @ 1 meter typical  
 Forced Air with temperature controlled fans

### Ordering Information

Inverter Model #	Output	Output Current	Input Current	Base Dimensions	Approx. Weight
HPIx 2K-48-N	2,000 VA @ 0.8 PF	16.7 A	45 A @ 42 Vdc	14"H x 20.5"W x 22"D	135 Lbs.
HPIx 3K-48-N	3,000 VA @ 0.8 PF	25.0 A	67 A @ 42 Vdc	14"H x 20.5"W x 22"D	170 Lbs.
HPIx 5K-48-N	5,000 VA @ 0.8 PF	41.7 A	112 A @ 42 Vdc	14"H x 20.5"W x 22"D	225 Lbs.
HPIx 10K-48-N	10,000 VA @ 0.8 PF	83.3 A	224 A @ 42 Vdc	19.25"H x 20.5"W x 22"D	335 Lbs.

### Option Table

Code	Option
NS	No Static Bypass Switch. AC input removed. (For HPIx Inverter Systems with a Static Bypass Switch, see the standard HPIx 48-N brochure)
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-N+NS+AL8+SVW**

Model No.

Options

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