



# PLIV Series Inverters

## 2, 3 & 5 kVA, 120 Vac, 60 Hz Output 24 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.

#### 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.

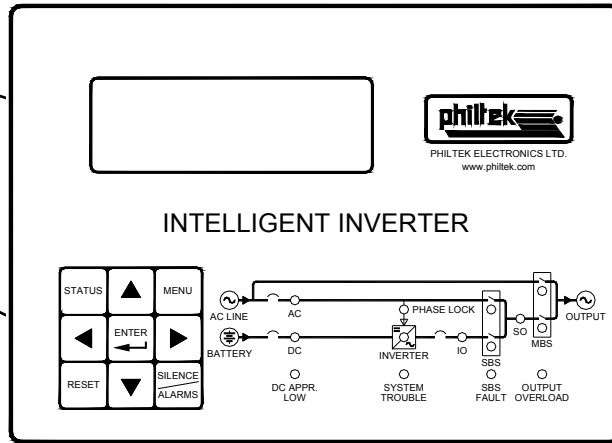
#### Packaging

- 2 & 3 kVA in a wall mount, 19" rack mount or 23" rack mount design. Rack sold separately. Floor mount stand option available.
- 5 kVA in a 23" rack mount design. Rack sold separately. Floor mount stand option available.
- Air intake at front, bottom and sides. Exhaust at top. Rear clearance is 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 24 V  
 Range 21 to 30 V  
 Current See Table  
 Noise feedback < 32 dBrc

### 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 75% to 85 %  
 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 2 Wires + Ground  
 Voltage 120 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
PLIV 2K-24-N	2,000 VA @ 0.8 PF	16.7 A	100 A @ 21 Vdc	24.5"H x 17"W x 14.8"D	120 Lbs.
PLIV 3K-24-N	3,000 VA @ 0.8 PF	25.0 A	150 A @ 21 Vdc	24.5"H x 17"W x 14.8"D	150 Lbs.
PLIV 5K-24-N	5,000 VA @ 0.8 PF	41.7 A	250 A @ 21 Vdc	36"H x 21"W x 17"D	290 Lbs.

## Option Table

Code	Option
<b>MBS(XR)</b>	Internal (or 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 Status-Via-Web Ethernet device. Allows remote control and monitoring via Web Page, SNMP and Modbus TCP/IP. (Separate external SVW device also available)

For Example:

**PLIV 5K-24-N+MBS+SVW**

Model No.

Options

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