



# PLIV Series Inverters

## 2 to 15 kVA, 120 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 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.

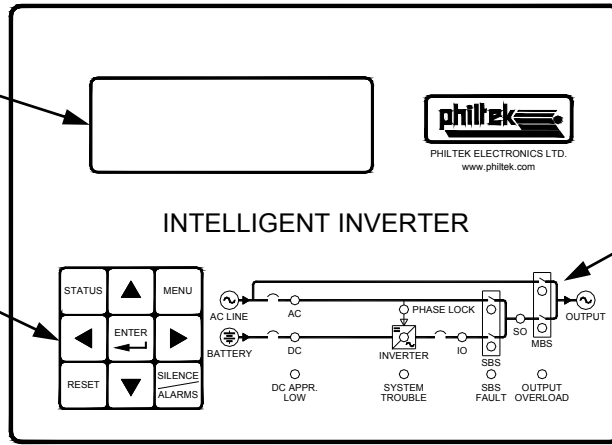
#### Packaging

- 2, 3, & 5 kVA in a wall mount, 19" rack mount or 23" rack mount design. Rack sold separately. Floor mount stand option available.
- 10 & 15 kVA in a 23" rack mount design. Rack sold separately. Floor mount stand option available.
- Air intake at front and bottom. 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	120 V
Range	105 to 150 V
Current	See Table
Noise feedback	< 40 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	≥ 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	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-120-N	2,000 VA @ 1.0 PF	16.7 A	22 A @ 105 Vdc	24.5"H x 17"W x 14.8"D	130 Lbs.
PLIV 3K-120-N	3,000 VA @ 1.0 PF	25.0 A	32 A @ 105 Vdc	24.5"H x 17"W x 14.8"D	150 Lbs.
PLIV 5K-120-N	5,000 VA @ 1.0 PF	41.7 A	53 A @ 105 Vdc	24.5"H x 17"W x 14.8"D *	190 Lbs.
PLIV 10K-120-N	10,000 VA @ 1.0 PF	83.3 A	106 A @ 105 Vdc	36"H x 21"W x 17"D	355 Lbs.
PLIV 15K-120-N	15,000 VA @ 1.0 PF	125 A	160 A @ 105 Vdc	36"H x 21"W x 17"D	500 Lbs.

## Option Table *(Other options available)*

Code	Option
MBS(XR) **	Internal (or 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:

**PLIV 5K-120-N+MBSXR+SVW**

Model No.

Options

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\* PLIV 5K-120-N also available in an optional 36" x 21" x 17" (SZ3) enclosure.

\*\* Internal MBS not available for PLIV 5K-120-N in the standard enclosure.