



HPRi Series Single Phase 60 Hz 15 kVA to 60 kVA Output 48 VDC Modular Inverter System

The Philtek HPRi Modular Inverter System features both Expandable and Redundant capabilities

The System is comprised of:

Inverter Modules “Plug and Play”

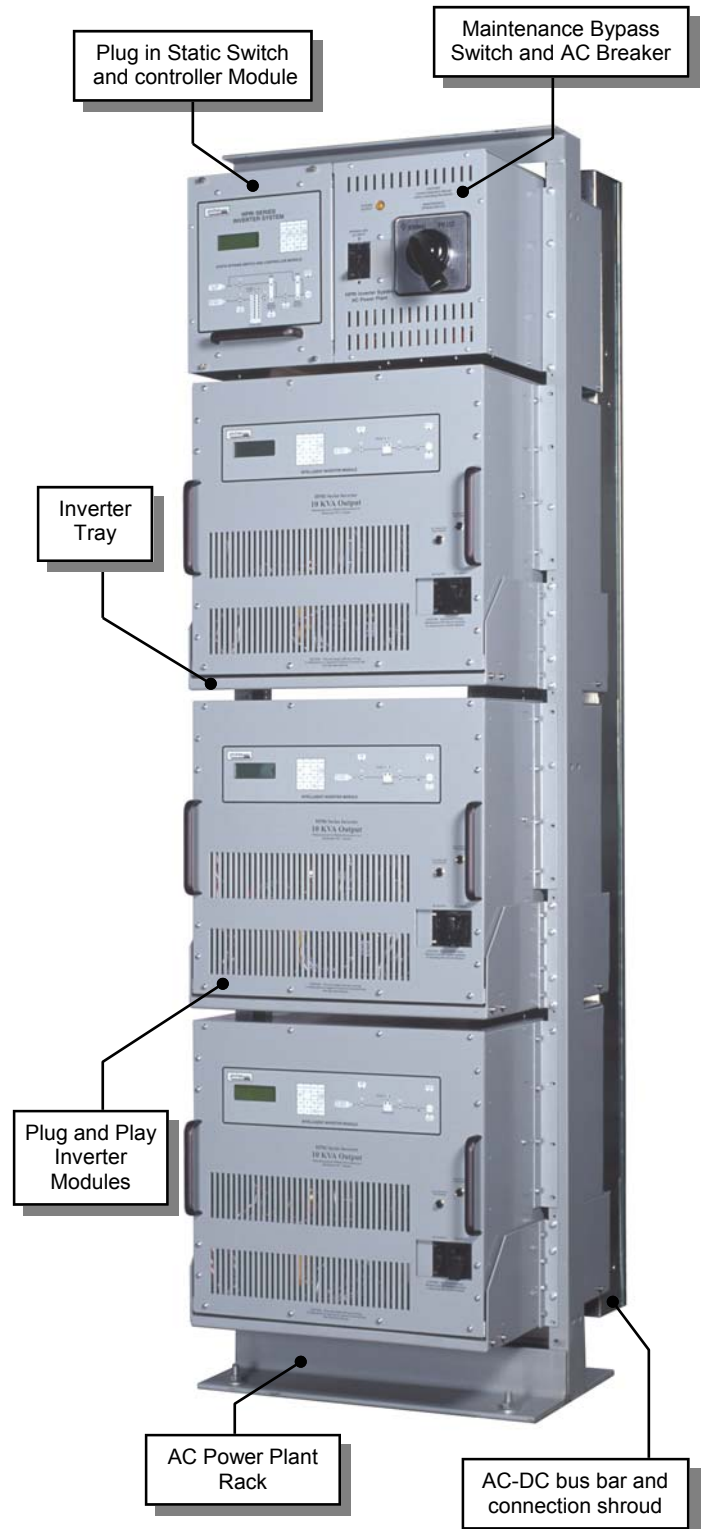
- Available with 5 KVA or 10 KVA output
- High frequency PWM technology, quiet operation
- Parallel connected with automatic load sharing
- “Hot Pluggable”, allows addition or removal of modules without de-energizing the system
- Inverter Output isolation transformer provides galvanic isolation between DC and AC circuits.

Static Bypass Switch and Controller

- 2 mSec transfer time, Online Mode
- Microprocessor Controlled with LCD display and Industrial style LED Mimic Diagram
- User configured to operate in the Online (Inverter preferred) or the Offline (AC line preferred) mode
- Provides an additional level of redundancy when operated in the Online Mode
- Plug in modular construction, can be removed or installed with no output interruption during Maintenance Bypass
- RS-232 Communication Port

AC Power Plant

- Constructed of heavy duty 23” Racks
- Make Before Break Maintenance Bypass Switch provides uninterrupted output during bypass
- AC line Circuit Breaker for overload protection during Static Bypass
- Fully enclosed AC and DC power bus bars, pre-wired to terminal blocks for external connections, simplifies installation
- Docking tray provides easy plug-in and removal of Inverter Module, will accept either a 5 kVA or a 10 kVA module
- 30 KVA system is only 24.5” x 29” in footprint and 84” in height



*Inverter System as shown above:
30 kVA Single Phase Output*

System Specifications (Subject to change without notice)

DC Input

Nominal	48 V
Range	42 to 60 V
Current	See Table

Inverter System AC Output

Power	See Table
Voltage	120 V
Phase	Single
Configuration	2 wire + Gnd
Regulation	± 1%
Dynamic:	
100 % step load	± 4%
Recovery	< 8 mSec
Efficiency	84% to 88%
Distortion (linear load)	< 1.0 % THD
Non Linear Load Capability	Up to 100 %
Active P.F. Corrected Loads	Compatible
Load Power Factor	0.7- 1.0 PF
Frequency	60 Hz
Frequency Tolerance	± 0.1 % free running
Synchronization:	
Range	± 1.5 Hz
Rate	1 Hz per Sec

Bypass AC

Connection	2 wire + Gnd,
Voltage	120 V,
Phase	Single
Frequency	60 Hz

Static Bypass Switch

Transfer Time	2 mSec typical, Online 4.2 mSec max, Online 8.4 mSec max, Offline
Voltage Tolerance	± 10 %
Frequency Tolerance	± 1.5 Hz
Overload:	120 % for 10 Minutes 1000 % for 8 ms

Environmental

Temperature	0° C to 40° C
Humidity	95 % RH
Cooling	Forced Air with temperature Controlled Fans

Inverter Modules

Output	Model #
5 kVA	HPri-INV2-5K-48-N
10 kVA	HPri-INV2-10K-48-N

Inverter System 48 VDC Input, 120 VAC, 60 Hz, Single Phase Output

Output VA @ 0.8 PF	15,000 VA	30,000 VA	60,000 VA
AC Power Plant + Controller Model #	HPri 15K-48-N	HPri 30K-48-N	HPri 60K-48-N+2RN+T
Inverter Modules Required	3 x 5 kVA	3 x 10 kVA	6 x 10 kVA
AC Output Current	125 Amp AC	250 Amp AC	500 Amp
DC Input Current @ 42 V	340 Amp DC	680 Amp DC	1360 Amp DC
AC Power Plant Racks	1	1	3
Overall Dim. W"xD"xH"	24.5 x 29 x 84	24.5 x 29 x 84	73.5 x 29 x 84
Total Weight (Net)	990 Lbs.	1,350 Lbs.	2,850 Lbs.

N+1 Redundant System 48 VDC Input, 120 VAC, 60 Hz Single Phase Output

Output VA @ 0.8 PF	15,000 VA N+1	30,000 VA N+1	60,000 VA N+1
AC Power Plant + Controller Model #	HPri 15K-48-N+RN1T	HPri 30K-48-N+RN1T	HPri 60K-48-N+2RN+T
Inverter Modules Required	4x 5 kVA	4 x 10 kVA	7 x 10 kVA
AC Output Current	125 Amp AC	250 Amp AC	500 Amp
DC Input Current @ 42 V	340 Amp DC	680 Amp DC	1360 Amp DC
AC Power Plant Racks	2	2	3
Overall Dim. W"xD"xH"	49 x 29 x 84	49 x 29 x 84	73.5 x 29 x 84
Total Weight (Net)	1,500 Lbs.	1,850 Lbs.	3,200 Lbs

Ordering Information:

First determine your power requirement, then select the appropriate **AC Power Plant + Controller** and quantity of **Inverter Modules** from the above tables

For example:

60,000VA output with N+1 redundancy requires

Qty 1	HPri 60K-48-N+2RN+T
Qty 7	HPri-INV2-10K-48-N

For more information please contact:

In Canada

Philtek Electronics Ltd.

Tel: (604) 270-4642

Fax: (604) 270-8343

In USA

Philtek Power Corp.

Tel: (360) 332-7252

Email: info@philtek.com