



HPRi Series Single Phase 60 Hz 15 kVA to 60 kVA Output 240 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”

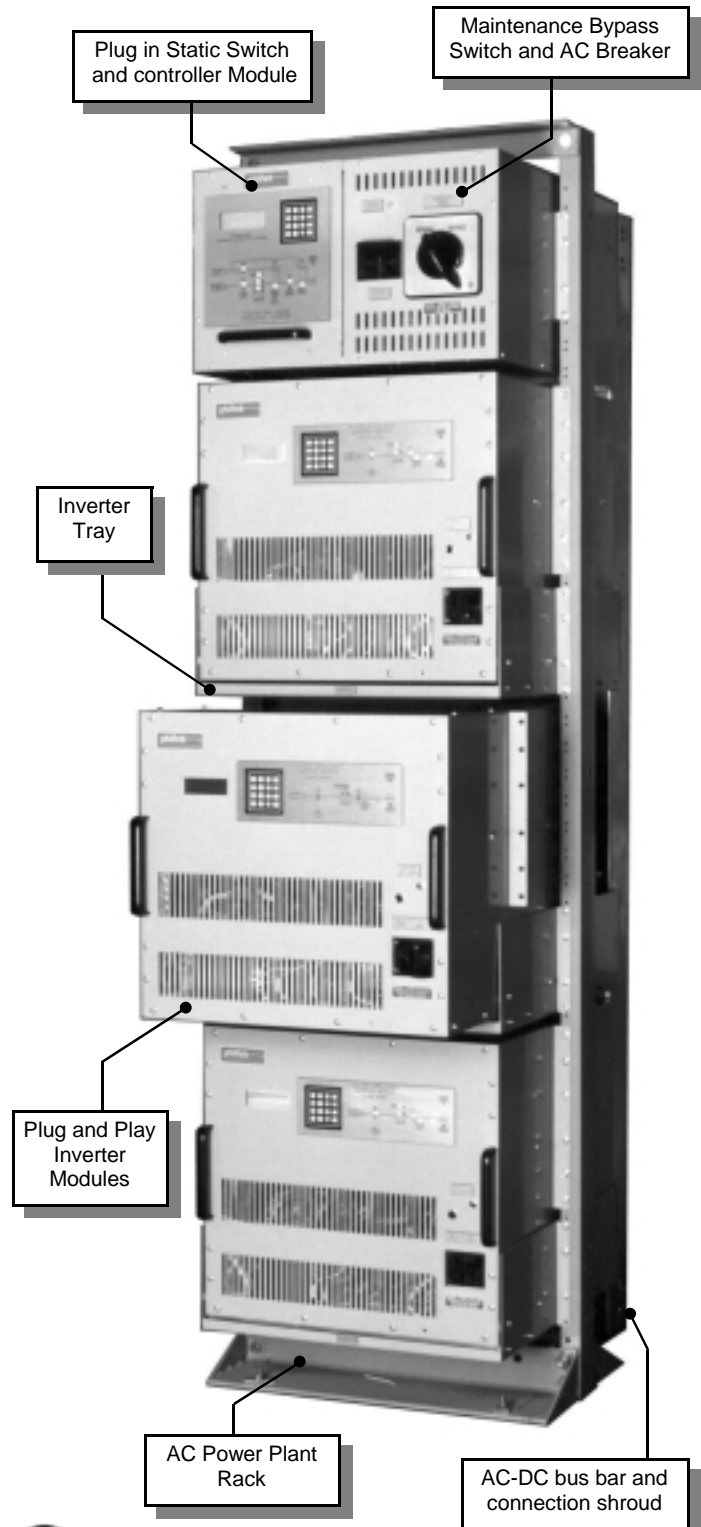
- 5 KVA or 10 KVA output each
- High frequency PWM technology, quiet operation
- Parallel connected with automatic load sharing
- “Hot Pluggable”, allows addition or removal of modules without de-energizing the system
- Output compatible with Active Power Factor Corrected AC Loads

Static Bypass Switch and Controller

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

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
- Compact design, 30 KVA system is only 24.5” x 29” in foot print and 84” in height
- **CSA Certified**



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

System Specifications (Subject to change without notice)

DC Input

Nominal	240 V
Range	210 to 290 V
Current	See Table

Inverter System AC Output

Power	See Table
Voltage	120 V 2 W 15 K VA , 30 KVA 120/240V 3 W 60 KVA
Regulation	± 1%
Dynamic:	
100 % step load	± 4%
Recovery	< 8 mSec
Efficiency	91% to 92%
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	60 Hz
Frequency Tolerance	± 0.1 % free running
Synchronization:	
Range	± 1.5 Hz
Rate	1 Hz per Sec

Bypass AC

Connection	2 wire + Gnd, 3 wire
+Gnd	
Voltage	120 V, 120/240V
Phase	Single
Frequency	60 Hz

Static Bypass Switch

Transfer Time	2 mSec typical 4 mSec maximum
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-INV-5K-240-N
10 kVA	HPri- INV-10K-240-N

Inverter System 240 VDC Input, 120 VAC, 120/240VAC, 60 Hz, Single Phase Output

Output VA @ 1.0 PF	①15,000 VA	①30,000 VA	②60,000 VA
AC Power Plant + Controller Model #	HPri 15K-240-N	HPri 30K-240-N	HPri 60K-240-B+2RN
Inverter Modules Required	3 x 5 kVA	3 x 10 kVA	6 x 10 kVA
AC Output Current	125 Amp AC	250 Amp AC	250 Amp AC per Line
DC Input Current @ 210 V	80 Amp DC	160 Amp DC	2 x 160 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 240 VDC Input, 120 VAC, 120/240 VAC, 60 Hz Single Phase Output

Output VA @ 1.0 PF	①15,000 VA N+1	①30,000 VA N+1	②60,000 VA N+1
AC Power Plant + Controller Model #	HPri 15K-240-N+RN1T	HPri 30K-240-N+RN1T	HPri 60K-240-B+2RN+2T
Inverter Modules Required	4 x 5 kVA	4 x 10 kVA	8 x 10 kVA
AC Output Current	125 Amp AC	250 Amp AC	250 Amp AC per Line
DC Input Current @ 210 V	80 Amp DC	160 Amp DC	2 x 160 Amp DC
AC Power Plant Racks	2*	2 *	3 *
Overall Dim. W"xD"xH"	24.5 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

* AC Power Plant racks shipped as individual units

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-240-B+2RN+2T
Qty 8	HPri-INV-10K-240-N

① Available in 120 VAC (2 Wire + Gnd) Output only

② Available in 120/240 VAC (3 Wire + Gnd) Output only

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