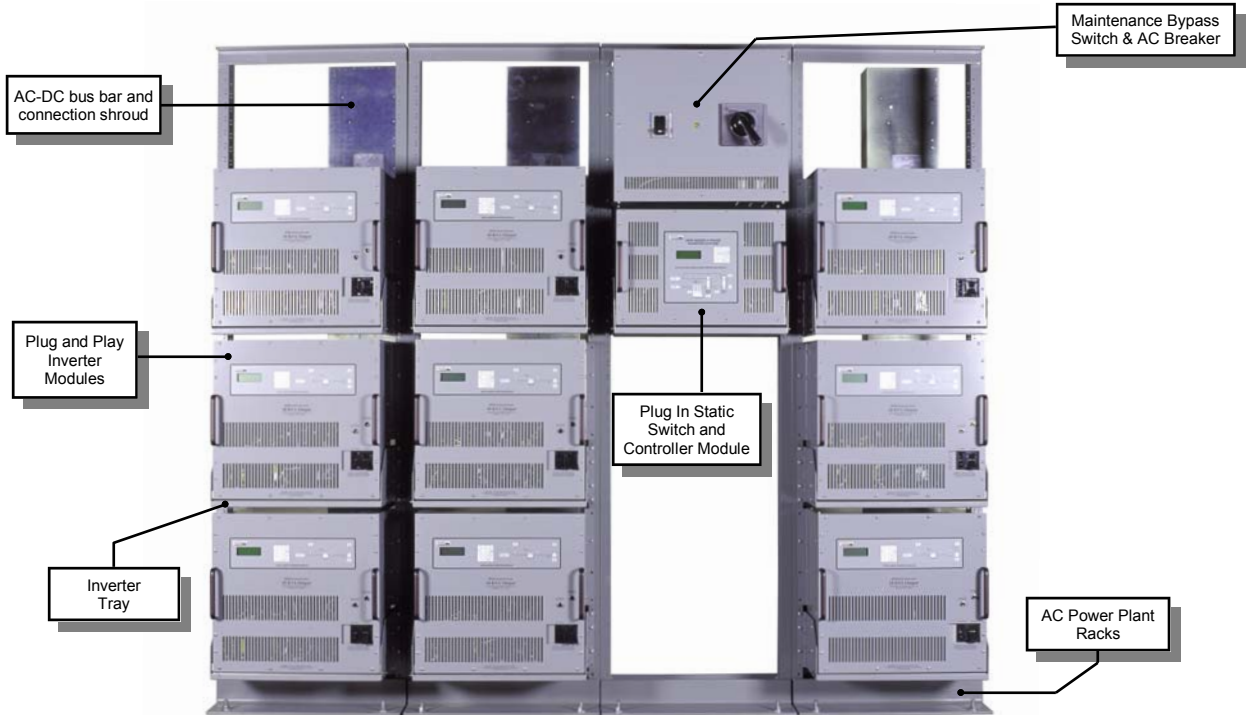




HPRI Series 3 Phase 60 Hz 15 to 90 kVA, 120/208 Vac Output 240 VDC Modular Inverter System

The Philtek HPRI 3 Phase Modular Inverter System features both
Expandable and Redundant capabilities



Inverter System as shown above: 90 kVA 3 Phase Output

The System is comprised of:

Inverter Modules “Plug and Play”

- 5 or 10 KVA output, minimum one for each phase
- Modules are the same as used in the Single Phase Inverter System
- High frequency PWM technology, quiet operation
- Parallel connected with automatic load sharing per phase
- “Hot Pluggable”, allows installation 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

- Output power rating self configured

- 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
- Docking tray provides easy plug-in and

System Specifications *(Subject to change without notice)*

DC Input

Nominal	240 V
Range	210 to 300 V
Current	See Table

Inverter AC Output

Power	See Table
Connection	4 wires (Y) + Gnd
Voltage	120/208V 3 Phase 60 Hz
Regulation	± 1%
Dynamic Regulation:	
100 % step load	± 4%
Recovery	< 8 mSec
Efficiency	> 90%
Distortion (linear load)	< 1.0 % THD
Non Linear Load Capability	Up to 100 %
Active P.F. Corrected Loads	Compatible
Load Power Factor	0.7 to 1.0 PF
Frequency Tolerance	± 0.1 % free running
Overload	120 % for 10 minutes
Synchronization:	
Range	± 1.5 Hz
Rate	1 Hz per Sec

Bypass AC

Connection	4 wires (Y) + Gnd
Voltage	120/208V 3Phase 60 Hz
Current	Same as output current see Table

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

<i>Output</i>	<i>Model #</i>
5 kVA	HPRI-INV2-5K-240-N
10 kVA	HPRI-INV2-10K-240-N

Inverter System 240 VDC Input, 120/208 VAC, 60 Hz, 3 Phase Output

Output VA @ 1.0 PF	15,000 VA	30,000 VA	60,000 VA	90,000 VA
AC Power Plant + Controller Model #	HPRI 30K-240-3N	HPRI 30K-240-3N	HPRI 90K-240-3N+2R3N	HPRI 90K-240-3N+3R3N
Inverter Modules Required	3 x 5 kVA	3 x 10 kVA	6 x 10 kVA	9 x 10 kVA
AC Output Current per Phase	42 Amp AC	83 Amp AC	167 Amp AC	250 Amp AC
DC Input Current @ 210V	80 Amp DC	160 Amp DC	320 Amp DC	480 Amp DC
AC Power Plant Racks	1	1	3	4
Overall Dim. W"xD"xH"	24.5 x 29 x 84	24.5 x 29 x 84	73.5 x 29 x 84	98 x 29 x 84
Total Weight (Net)	990 Lbs.	1,350 Lbs.	2,950 Lbs.	4,410 Lbs.

N+1 Redundant System 240 VDC Input, 120/208 VAC, 60 Hz, 3 Phase Output

Output VA @ 1.0 PF	15,000 VA N+1	30,000 VA N+1	60,000 VA N+1	90,000 VA N+1
AC Power Plant + Controller Model #	HPRI 30K-240-3N+R3N	HPRI 30K-240-3N+R3N	HPRI 90K-240-3N+3R3N	HPRI 90K-240-3N+4R3N
Inverter Modules Required	6 x 5 kVA	6 x 10 kVA	9 x 10 kVA	12 x 10 kVA
AC Output Current per Phase	42 Amp AC	83 Amp AC	167 Amp AC	250 Amp AC
DC Input Current @ 210 V	80 Amp DC	160 Amp DC	320 Amp DC	480 Amp DC
AC Power Plant Racks	2	2	4	5
Overall Dim. W"xD"xH"	49 x 29 x 84	49 x 29 x 84	98 x 29 x 84	122.5 x 29 x 84
Total Weight (Net)	1,930 Lbs.	2,570 Lbs.	4,410 Lbs.	5,670 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:

30,000VA output with N+1 redundancy requires

Qty 1	HPRI 30K-240-3N+R3N
Qty 6	HPRI-INV2-10K-240-N

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