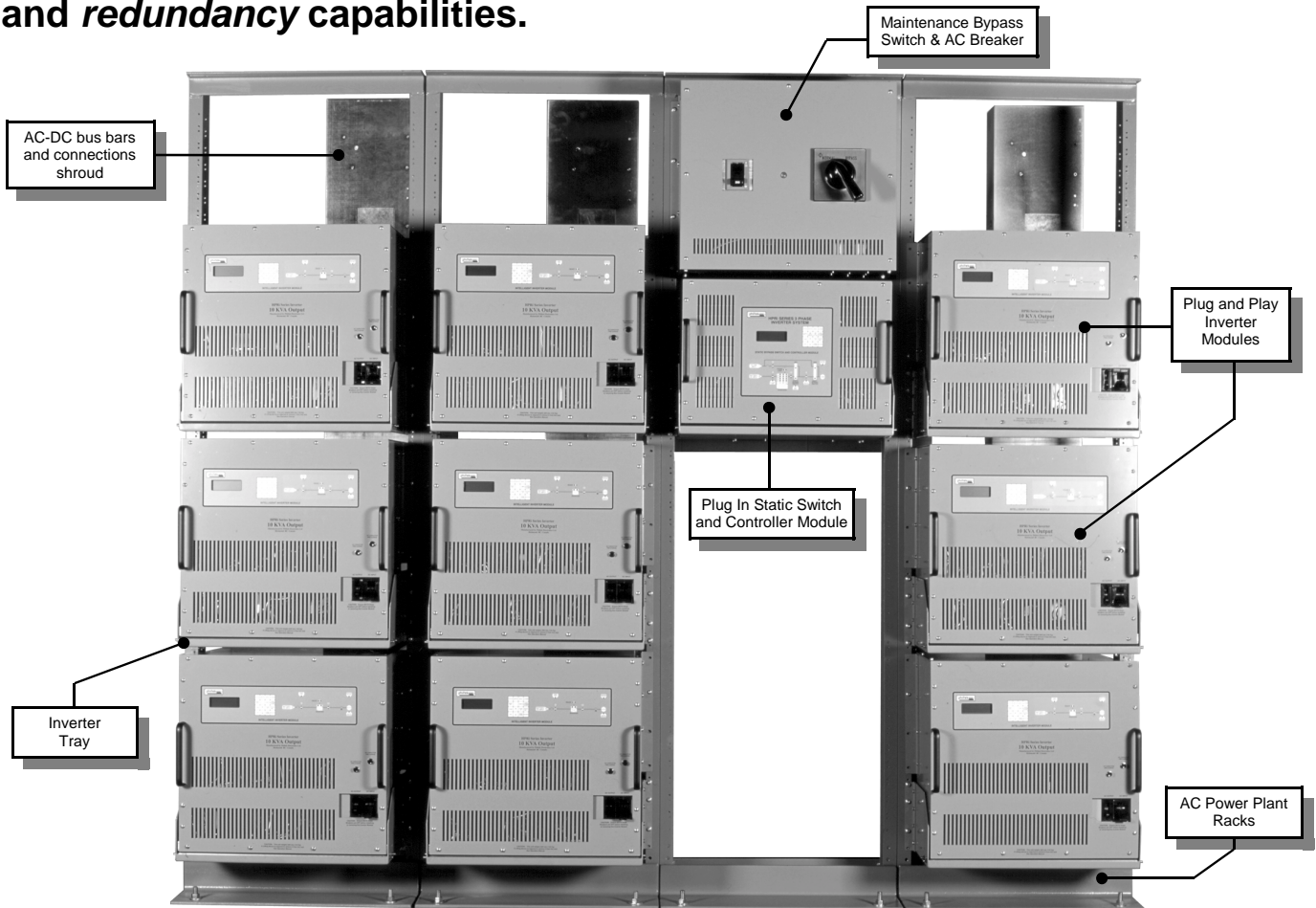




HPRi Series 3 Phase 50 Hz 60 to 150 kVA 220/380 Vac Output 120 VDC Modular Inverter System

The Philtek HPRi 3 Phase Modular Inverter System features *expansion* and *redundancy* capabilities.



90 KVA HPRi Inverter System c/o AC Power Plant, Controller and 9 x 10 KVA Inverter Modules

Inverter Modules “Plug and Play”

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

Static Bypass Switch and Controller

- Output power rating self configured, 2.5 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
- Inverter docking trays provide easy plug in and removal of Inverter Modules

System Specifications *(Subject to change without notice)*

DC Input

Nominal	120 V
Range	105 to 145 V
Current	See Table

AC Output

Power	See Table
Connection	4 wires (Y) + Gnd
Voltage	220/380V 3 Phase 50 Hz
Regulation	± 1%
Dynamic Regulation:	
100 % step load	± 4%
Recovery	< 10 mSec
Efficiency	89 %
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	120 % for 10 minutes
Synchronization:	
Range	± 1.5 Hz
Rate	1 Hz per Sec

Bypass AC Input

Connection	4 wires (Y) + Gnd
Voltage	220/380V 3Phase 50 Hz
Current	Same as output current see Table

Static Bypass Switch

Transfer Time	2.5 mSec typical 5 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

<i>Output</i>	<i>Model #</i>
10 kVA 220 Vac 1Φ	HPri-INV-10K-120-A
Weight	340 Lbs

Inverter System 120 VDC input 220/380 VAC 50 Hz 3 Phase Output

Output VA @ 1.0 PF	60,000 VA	90,000 VA	120,000 VA
*AC Power Plant + Controller Model #	HPri 150-120-3A+2R3A	HPri 150K-120-3A+3R3A	HPri 150K-120-3A+4R3A
Inverter Modules Required	6 x 10 KVA	9 x 10 kVA	12 x 10 kVA
AC Output Current per Phase	91 Amp AC	137 Amp AC	182 Amp AC
DC Input Current @ 105 V	2 x 321 Amps DC	3 x 321 Amp DC	4 x 321 Amp DC
*AC Power Plant Racks	3	4	5
Overall Dim. W"xD"xH"	73.5 x 29 x 84	98 x 29 x 84	122.5 x 29 x 84
Total Weight (Net)	2,900 Lbs	4,205 Lbs.	5,460 Lbs.

Inverter System 120 VDC input 220/380 VAC 50 Hz 3 Phase Output

Output VA @ 1.0 PF	150,000 VA	150,000 VA N+1
*AC Power Plant + Controller Model #	HPri 150K-120-3A+5R3A	HPri 150K-120-3A+6R3A
Inverter Modules Required	15 x 10 kVA	18 x 10 kVA
AC Output Current per Phase	228 Amp AC	228 Amp AC
DC Input Current @ 105 V	5 x 321 Amp DC	**6 x 321 Amp DC
*AC Power Plant Racks	6	7
Overall Dim. W"xD"xH"	147 x 29 x 84	171.5 x 29 x 84
Total Weight (Net)	6,715 Lbs.	7,970 Lbs.

* AC Power Plant shipped disassembled

** The actual maximum total input current is only 1,605 A DC

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:

150,000VA output with N+1 redundancy requires

Qty 1	HPri 150K-120-3A+6R3A
Qty 18	HPri-INV-10K-120-A

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