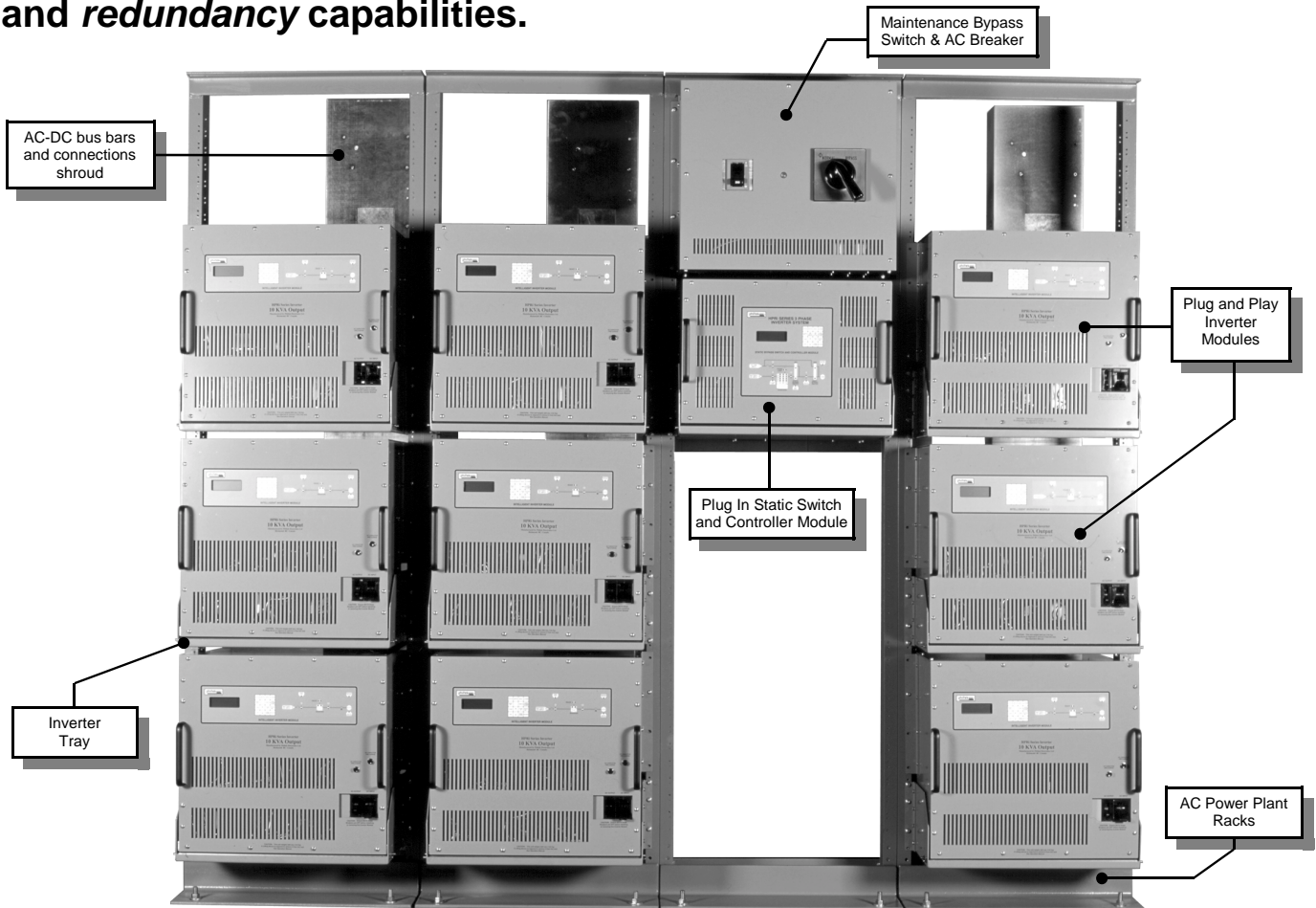




HPRi Series 3 Phase 50 Hz 60 to 150 kVA 220/380 Vac Output 220 VDC Modular Inverter System

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 220 V
 Range 192 to 260 V
 Current See Table

AC Output

Power See Table
 Connection 4 wires (Y) + Gnd
 Voltage 220/380V 3 Phase 50 Hz
 Regulation $\pm 1\%$
 Dynamic Regulation:
 100 % step load $\pm 4\%$
 Recovery < 10 mSec
 Efficiency 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 Tolerance $\pm 0.1\%$ 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 $\pm 10\%$
 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 #*
 10 kVA 220 Vac 1 Φ **HPRi-INV-10K-220-A**
 Weight 340 Lbs

Inverter System 220 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 150-220-3A+2R3A	HPRi 150K-220-3A+3R3A	HPRi 150K-220-3A+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 @ 192 V	2 x 174 Amps DC	3 x 174 Amp DC	4 x 174 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 220 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-220-3A+5R3A	HPRi 150K-220-3A+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 @ 192 V	5 x 174 Amp DC	**6 x 174 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 870 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-220-3A+6R3A
 Qty 18 HPRi-INV-10K-220-A

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