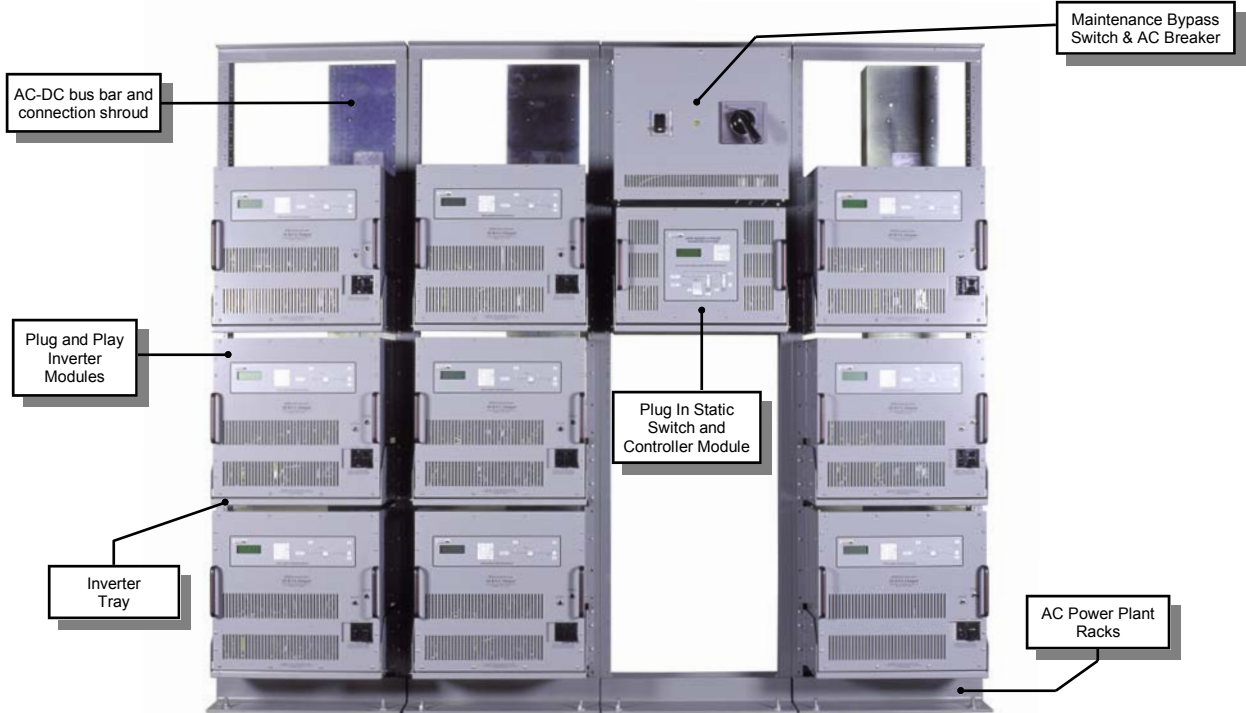




HPRi Series Three Phase 30 kVA to 180 kVA Output Modular Inverter System

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
- 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
- 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 Model Number (AC Power Plant and SBS Module):

HPRi 90K - 120 - 3N + 4R3N + OPTIONS

Max. AC Power Plant Output Power

30K: 30 kVA
90K: 90 kVA
180K: 180 kVA

Nominal DC Input Voltage

24: 24 Vdc
48: 48 Vdc
120: 120 Vdc
240: 240 Vdc

AC Output Voltage (3Φ)

3N: 120/208V, 60Hz
3E: 277/480V, 60Hz

Number of additional Inverter Racks (3 Inv stations/rack)

R3x: 1 Inverter Rack
2R3x: 2 Inverter Racks
3R3x: 3 Inverter Racks
4R3x: 4 Inverter Racks
5R3x: 5 Inverter Racks
6R3x: 6 Inverter Racks
7R3x: 7 Inverter Racks
8R3x: 8 Inverter Racks
(x = N [120V] or E [277V])

Options

SDC: Separate DC Inputs for each Inverter station.

SHE: Shroud Extender.

HM: History Module records 100 events with date and time stamp.

RS232: RS-232 interface. (Now standard on all HPRi systems)

RS485: Replaces the RS-232 interface with an RS-485 2-wire interface.

MB: Replaces the Philtek protocol with Modbus protocol for RS-232 or RS-485 interface.

SVW: External Status-Via-Web Ethernet device. Connect to the Inverter Systems RS-232 interface.

Examples:

HPRi 30K-48-3N+SDC+SHE+HM
HPRi 30K-120-3N+R3N
HPRi 90K-240-3N+4R3N+HM+RS485+MB
HPRi 180K-48-3N+8R3N+HM
HPRi 180K-48-3E+7R3E+SDC+SHE+HM

Inverter Module Model Number:

HPRi - INV2 - 10K - 120 - N

Output Power

5K: 5 kVA
10K: 10 kVA

Nominal DC Input Voltage

24: 24 Vdc
48: 48 Vdc
120: 120 Vdc
240: 240 Vdc

AC Output Voltage (1Φ)

N: 120V, 60Hz
E: 277V, 60Hz

Not all combinations are available, please see specific brochures or contact Philtek.

For other configurations and options, please contact Philtek.

For More Information please Contact:

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