

HD POWER

GeMi
POWER SOLUTIONS


UPS & RECTIFIER SYSTEMS



DC/ AC industrial INVERTER

HD POWER: INDUSTRIAL GRADE DC/AC INVERTER

SINGLE PHASE from 5kVA to 80kVA

THREE PHASE from 5kVA to 120kVA



HD POWER series from GE.MI. PS is a true on-line inverter system that provides continuous, clean, regulated power for critical AC loads.

Designed specifically for process control and industrial applications, the HD POWER systems utilize state of the art **Pulse With Modulation (PWM)** technology, incorporating high power IGBT semiconductors, and digital control for enhanced communications, monitoring, control and diagnostics capabilities.

HD POWER series designs also include an touch screen 7" HMI panel with user-friendly interface.

MAIN FEATURES:

- ❖ True on-line inverter system
- ❖ Designed specifically for process control and harsh industrial applications
- ❖ Transformed based
- ❖ High power IGBT semiconductors and digital control
- ❖ HMI touch screen 7"
- ❖ Modbus communication (TCP/IP)
- ❖ Highly customizable
- ❖ Easy maintenance and serviceability
- ❖ Built-in manual bypass
- ❖ Automatic Pre-Charge Circuit
- ❖ Tropicalized boards

TECHNICAL DATA

1PH OUTPUT

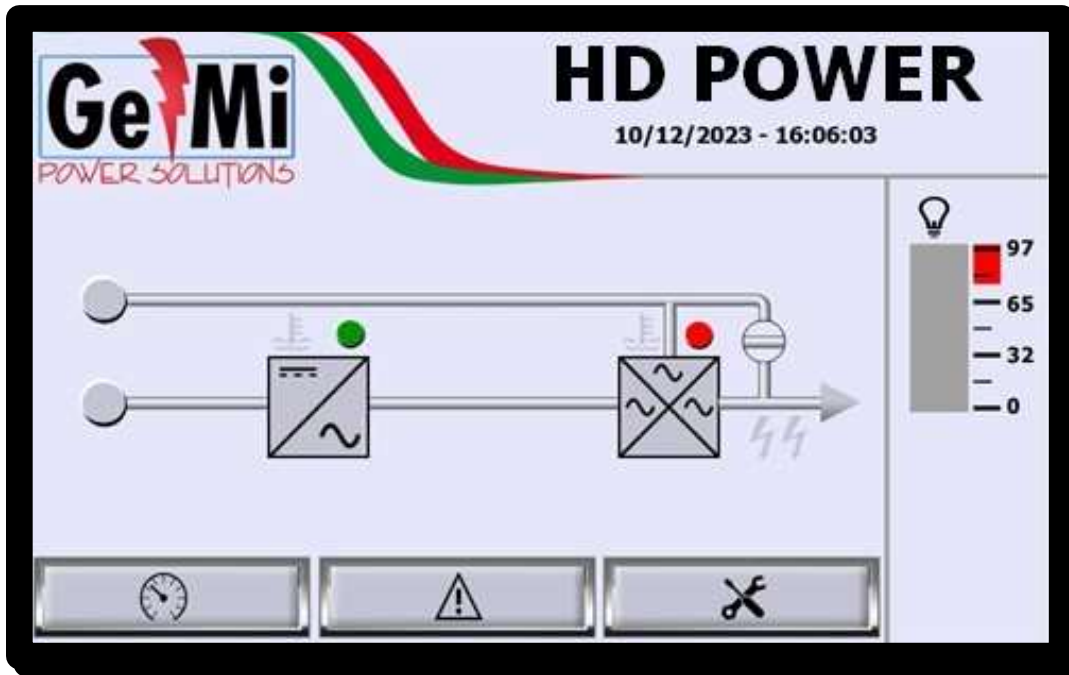
MODEL	HD.P5	HD.P10	HD.P15	HD.P20	HD.P25	HD.P30	HD.P40	HD.P60	HD.P80
Power [kVA]	5	10	15	20	25	30	40	60	80
P.F.	0,8 (settable)								
INPUT									
DC voltage	110 (90 ÷ 160 Vdc range) / 220 (180 ÷ 300 Vdc range)								
Bypass Input Voltage [Vac]	230 ± 10% (other Voltage on request)								
Bypass Frequency [Hz]	50 – 60 Hz selectable ±5%								
OUTPUT									
Nominal Voltage [Vac]	110 / 115 / 120 / 220 / 230 / 240 Vac 1-phase (other Voltage on request)								
Outpu Frequency [Hz]	50 – 60 Hz selectable								
Voltage Regulation	± 1% static / ±5% dynamic / < 40mS recovery time								
Overload Capacity	150% for 5 mins								
THD	<2% linear load / <5% non-linear load								
Transfer Time	0 ms (Inverter to bypass mains) - overlapping								
Transfer Time	0 ms (bypass mains to inverter) - overlapping								
GENERAL FEATURES									
Dimension (W x D x H) [mm]	From 800 to 2.400 width / 800 depht / 2.000 height								
Audible noise	< 70 dBA @ 1 m								
Environmental	Temperature 0 – 40 °C; Humidity < 90%. Altitude < 1.000 mt (o.s.l.)								
Connectivity	TCP/IP Modbus								

TECHNICAL DATA

3PH OUTPUT

MODEL	HD.P5	HD.P10	HD.P15	HD.P20	HD.P25	HD.P30	HD.P40	HD.P60	HD.P80	HD.P100	HD.P120
Power [kVA]	5	10	15	20	25	30	40	60	80	100	120
P.F.	0,8 (settable)										
INPUT											
DC voltage	110 (90 ÷160 Vdc range) / 220 (180 ÷300 Vdc range)										
Bypass Input Voltage [Vac]	400 ± 10% (other Voltage on request)										
Bypass Frequency [Hz]	50 – 60 Hz selectable ±5%										
OUTPUT											
Nominal Voltage [Vac]	200 / 208 / 220 / 380 / 400 / 415 Vac 3-phase (other Voltage on request)										
Outpu Frequency [Hz]	50 – 60 Hz selectable										
Voltage Regulation	± 1% static / ±5% dynamic / < 40mS recovery time										
Overload Capacity	150% for 5 mins										
THD	<2% linear load / <5% non-linear load										
Transfer Time	0 ms (Inverter to bypass mains) - overlapping										
Transfer Time	0 ms (bypass mains to inverter) - overlapping										
GENERAL FEATURES											
Dimension (W x D x H) [mm]	From 800 to 2.400 width / 800 depht / 2.000 height										
Audible noise	< 70 dBA @ 1 m										
Environmental	Temperature 0 – 40 °C; Humidity < 90%. Altitude < 1.000 mt (o.s.l.)										
Connectivity	TCP/IP Modbus										

HMI touch screen 7"



Inverter

Input DC voltage (DC BUS)
Output Voltage
Output Current
Frequency
Temperature
Status Inverter OK / KO

Customer Interface

1. Input DC mains KO / OK
2. Bypass AC Mains KO / OK
3. Load on Bypass Mains
4. Inverter KO / OK
5. Load on Inverter
6. Overload

Bypass

Load on Inverter or on Static Bypass
Input Voltage
Input Current
Frequency
Temperature
Cos Ø
Power

Potential Free SPDT Contacts Features

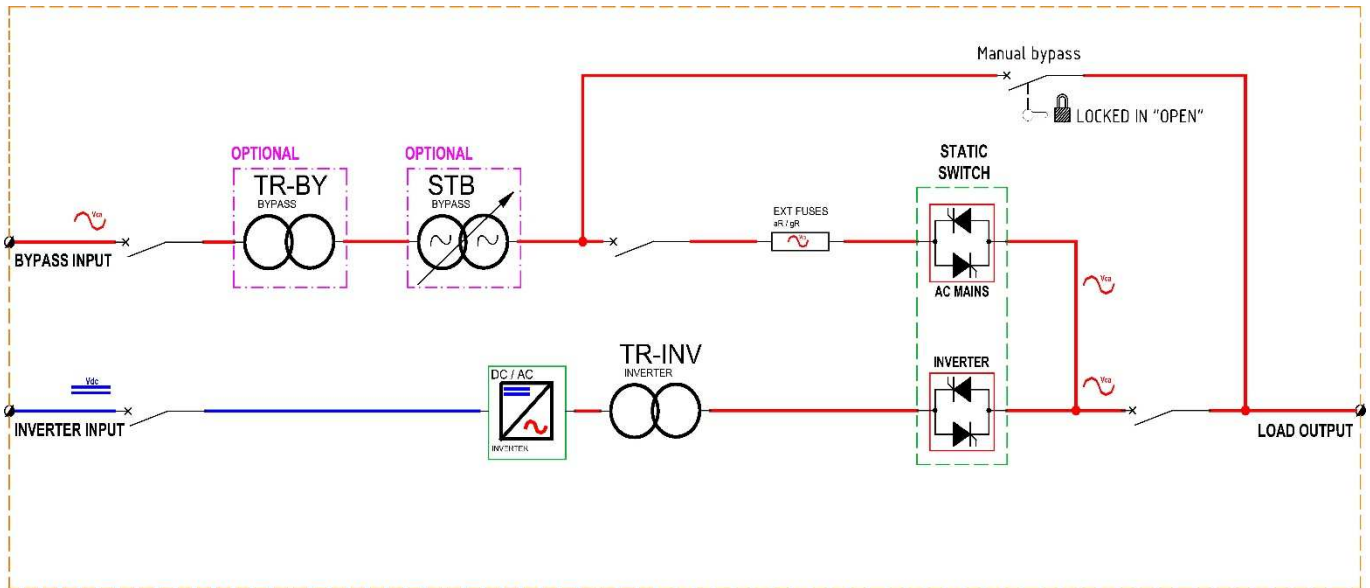
Vn=250Vca / In=5A

Output Line (Load)

Output Voltage
Output Current
Frequency
Cos Ø
Power



HD POWER SLD of PRINCIPLE



Accessories:

- Cabinet IP20 – RAL7035 - 60μ
- HMI touch screen 7"
- Warning Signs
- Inverter
- Static Switch
- Tropicalized Electronic Boards
- Connection of semiconductors
- DC Bus Capacitors
- Output filter Capacitors
- Fans (24Vdc)
- Input Filter
- Inverter Transformer
- DC Inductance
- Cable Attestation Terminal Board
- DC contactor
- Input Circuit Breaker
- Input Bypass Circuit Breaker
- Output Circuit Breaker
- Automatic Pre-Charge circuit

Options:

- Degree of protection up to IP54
- Top cable entry
- Special colour
- Paint thickness > 60μ
- Redundant ventilation
- Altitude up to 4.000 mt (o.s.l.)
- Internal light
- Bypass isolation transformer
- Bypass voltage stabilizer
- AC earth fault
- AC distribution
- Analog meter
- Transducers
- IEC61850 protocol
- Antivibration pads
- Cabinet fans
- AC and DC surge arrestor
- Dual redundancy configuration
- Load-bearing lifting eyebolts



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Local Contact



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