



Hyperion Industrial DC / AC Inverter 1 - 1200 kVA Technical Specifications

GENERAL		
Phase	Single-Phase	Three-Phase
Technology	Isolation Transformer Based Industrial Design	
Control	High Frequency IGBT PWM Controlled	
INPUT		
DC Voltage	12 / 24 / 48 / 72 / 110 / 220 / 400 Vdc (custom inputs available)	
Voltage Tolerance	±20% (can be increased on request)	
Frequency	50 Hz / 60 Hz ±10%	
Power Factor	≥ 0.8 (0.9 or 1.0 options are available)	
THDi	≤5% at Full Load	
Input Protection	MCB, Overload Protection, Over Voltage, Phase Sequence Protection	
OUTPUT		
AC Voltage	220/230/240 Vac (or 110/120/127 Vac)	380/400/415 Vac (or 208/480/600 Vac)
Output Accuracy	±1%	
Frequency	50 Hz / 60 Hz ±10%	
Current Adjustment	0 - 100% Digitally Adjustable	
Voltage Adjustment	0 - 100% Digitally Adjustable	
Crest Factor	3:1	
THDv	<3%	
Waveform	Pure Sinewave	
Switching Frequency	16 kHz	
Short-circuit	3x Nominal Output Current	
Charger	Available on Request	
Overload Operation	100% - 125% load: 10 min, 125% - 150% load: 1 min, > 150% load: 3 sec	
Output Protection	Over Current / Over Temp / Short Circuit / AC High-Low / DC High-Low	
Efficiency	>90% at Full Load	
CONTROL PANEL		
Display	4x20 LCD (10" touchscreen is optional)	
Displayed Parameters	Input/Output, Operation Timer, Alarms Adjust, Password	
Displayed Units	AC/DC Voltage, Frequency, Input/Output Current, Charger Current Operation Time (S:M:H), Charging Time (S:M:H)	
Event Log	500 Events Recorded	
COMMUNICATION		
Standard	Dry Contact Card (up to 10 adjustable relays), RS485 MODBUS	
Optional	SNMP, CANBUS, Profibus, IEC 61850, RS232, USB	
Parallel Operation	Optional (up to 8 units)	
SAFETY and STANDARDS		
Over Voltage	IEEE 587 4500 A, 40kA Surge Arrestor	
Interference Reduction	Class B	
Standards	IEC 62040-1-2-3, EN 50091-1 (Security), EN 50091-2 (EMC), ISO 9001, CE	
ENVIRONMENT		
Heat and Humidity	-10 C° / + 60 C°, 0 - 90% (non-condensing)	
Noise Level	Less than 60 dB	
Protection Level	IP34 (higher protection levels are available on request)	
Cooling	Forced Air Cooling with Axial Fans or Natural Air Cooling	
MTBF	250 000 hrs	

Highlights

- Pure Sinewave Output
- LCD Screen
- Industrial Sturdy Design
- IGBT PWM Controlled
- Manual and Automatic Bypass
- Transformer Based Technology
- Lightweight Construction
- Quiet Operation
- Simple Program Menu
- RFI Filter
- Parallel Operation
- Automatic Start-Up After Power Cut
- Low/High Voltage Error Warning
- Remote Monitoring
- Battery Charging Capacity
- Double or More Outputs
- Over Temperature Protection
- 2 Years Warranty

General Features

Hyperion model inverters can be utilized for the supplying of all electrical equipment without any trouble because of the pure sine wave at the output. Since the energy source is a DC voltage when there is no main source, they provide long-life energy in marine vehicles, industrial institutions, railways, military applications, telecommunication, energy production centers etc.

Hyperion series inverters are available for all kinds of applications due to the wide input voltages, power options between 1 - 1200 kVA in a single cabinet (can be connected in parallel for power increase) silent performance and high efficiency.