HELIOS

POWER SOLUTIONS

Inverta Series Static Power

Our Industrial Static Inverters are suitable for all these sectors >>

Defence | IT & Telcom | Oil & Gas | Transportation | Power Utilities | Critical Manufacturing

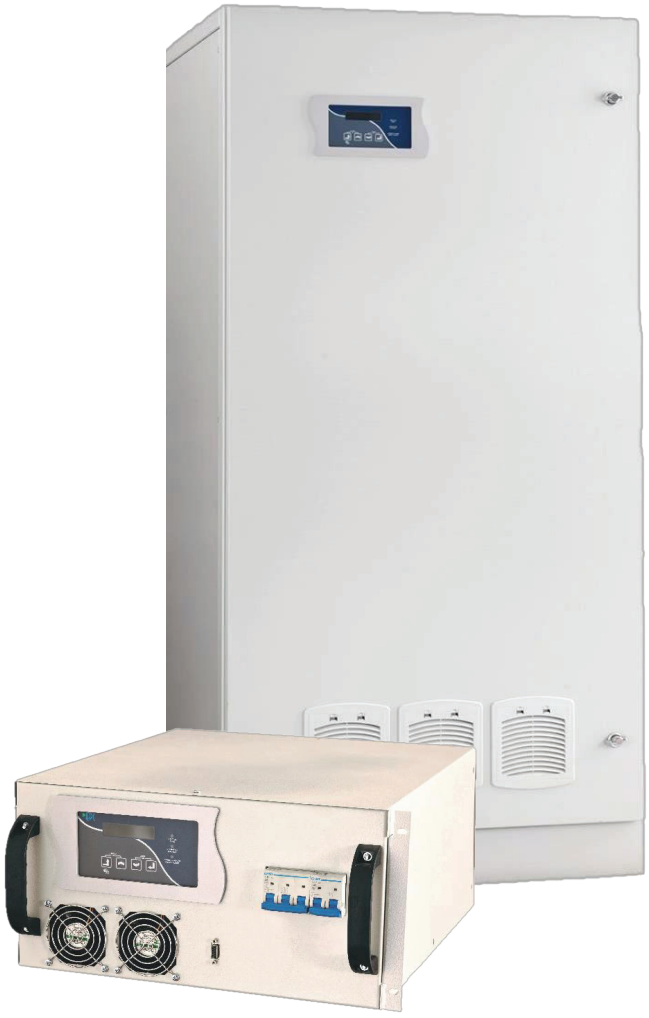
Inverta Series Static Power

RUGGED AND HEAVY INDUSTRIAL DESIGN
+25 years of design life and over 200000 hrs. MTBF.

EASY MAINTENANCE AND REPAIR
Modular structure and front access with smart component distribution for easier repair and maintenance.

VERY WIDE INPUT RANGE
±30% Input DC Range provides you uninterrupted Pure Sine Wave for longer period of times.
No need for any additional Voltage adjustment.

HARSH ENVIRONMENTS
High grade protection level up to IP54 ensures full functionality in every harsh condition. Coating and plating provides solid resistance to the system.



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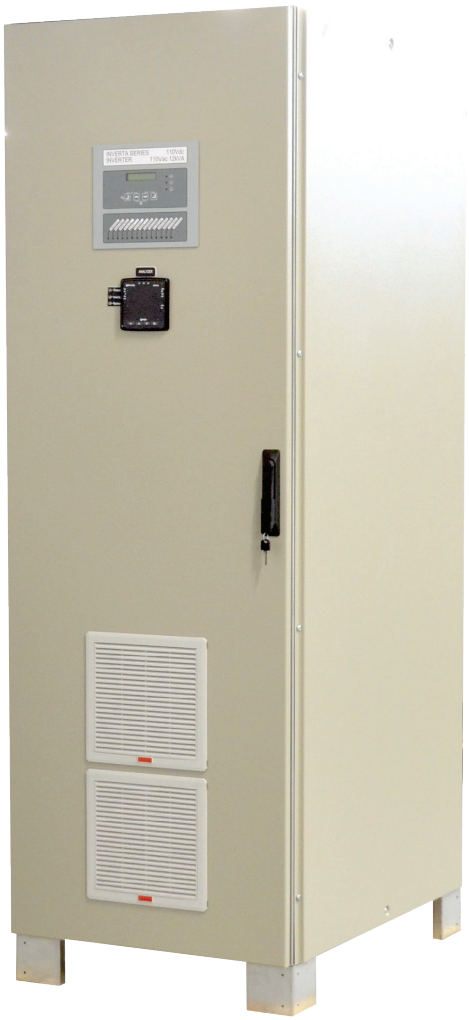
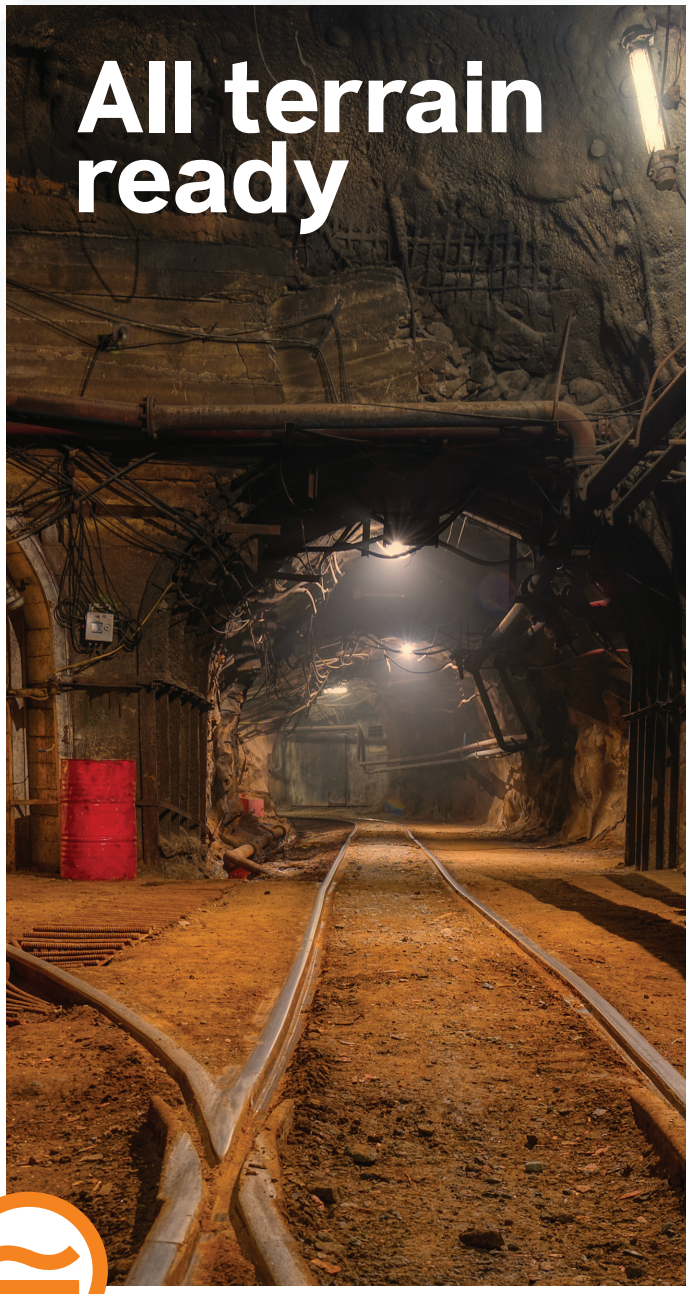
Features

- Output isolation transformer
- Fast control with DSP controller
- IGBT/IPM Technology
- Bypass Voltage sampling
- <1% Voltage Stability
- Alarm adjustable dry contacts
- ModBus Protocol - RS232, RS485
- Uninterrupted bypass switching
- Automatic start & fault recovery
- Up to 200kVA in single phase models
- Smart fault diagnosing
- Modular board structure





Options

- Analog gauges (V, A, Hz meters)
- Parallel operation up to 2
- Battery discharging facility
- Transducers (4-20mA and 0-10V)
- Enclosure heating
- Fan failure monitoring

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GENERAL			
Type	Industrial Static Inverter (AC/DC) w. Ouput Isolation Transformer		
Conversion Topology	Insulated Gate Bipolar Transistor (IGBT Based)		
Control	DSP Controller		
INVERTER TYPE	**RACK TYPE (1 PHASE)**	**TOWER TYPE (1 PHASE)**	**TOWER TYPE (3 PHASE)**
INPUT			
Input Voltage (DC)	24 to 220VDC	24 to 220VDC	24 to 600VDC
Alternative Voltage (AC)	110 to 600VAC & 50/60 to 400Hz		
OUTPUT			
Ouput Power	1 to 3kVA	1 to 200kVA	10 to 500kVA
Output Voltage	110 to 260 VAC		190 to 600VAC
Voltage Tolerance	±1% (Static), ±5% (Dynamic 100% load change 50ms)		
Frequency	50/60 to 400Hz ±%1(sync), ±0,5(not sync)		
Efficiency	82 to 90% (depending on DC Bus)		
Power Factor	0,8		
Waveform	Pure Sine Wave		
Switch to Bypass	<4ms		
Switch to Inverter	0ms (Re-transfer delay adjustable)		
Crest Factor	3:1		
Overload (INV)	125% for 10mins / 150% for 1min / 200% for 1sec (adjustable)		
Overload (BYP)	110% continuos / 150% for 1min / 1000% for 50ms (adjustable)		
THDu	<2% (linear), <5% (non linear)		
Crest Factor	3:1		
PHSYICAL CHARACTERISTICS			
Ingress Protection	Standard: IP20, **(OPT: 21 to 54)**		
Cooling System	Forced Ventilation **(OPT: Natural cooling, Water cooling, Smart Fans)**		
Cable Entry	Standard: Bottom **(OPT: Top, Rear, Side)**		
Cabinet Color	Standard: RAL7032,7035 **(OPT: Others)**		
ENVIRONMENT			
Operating Temperature	0 to 50°C		
Storage Temperature	-25 to 70°C		
Relative Humidity	up to 90% (non-condensing)		
Operating Altitude	1000m from MSL (1% derate each 100m after 1000m)		
Acoustic Noise	50 to 73 dBA (depending on rating)		
COMMUNICATIONS			
Standard Comm.	RS232, Dry Contact x4 to x16 **(OPT: RS485, TCP and IEC61850)**		
Paralel Operation	Up to 2		
Visual Interfaces	LED/LCD Panel **(OPT: Touch Panel, Mimic Panel Available)**		
PROTECTIONS			
Hardware Protections	Overvoltage, Overload, Short Circuit, SCR Rapid Protection		
Software Protections	Current Limitting, Overtemperature, Undervoltage, AC Synchronization		
Dry Contact Operation	Settable dry contact relays (NO/NC)		
STANDARDS			
IEC 62040-1/2:2008	UPS – Part 1-2 General and Safety Requirements / Electromagnetic compatibility		

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UNITED ARAB EMIRATES

AUSTRALIA

SINGAPORE

NEW ZEALAND

World-class engineering, local focus.