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PHASE

HYBREX
SERIES
HYBRID SINEWAVE
INVERTER/CHARGER/ SOLAR SYSTEMS
from 5 - 6 kVA

TOWER

LCD DISPLAY

TRANSFORMER BUILT-IN

EASY SERVICE



HYBREX IS AN MULTI FUNCTIONAL INVERTER/CHARGER SYSTEM

Including powerful battery charger with bypass function and optional solar function designed for high inrush currents, motor and industrial applications.

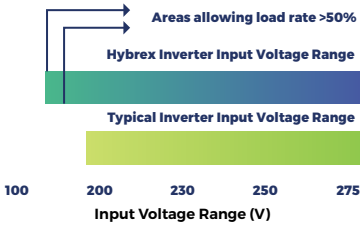
User Friendly LCD Displays Offers User Configurable and Easy Accessible Operation

- Pure Sinewave Output for Critical Loads
- Digital Microprocessor Controlled Technology
- User Friendly LCD Display
- 1-30A Charging Current for Long Back up Time
- Battery Discharge Protection
- Overload and Short Circuit Protection
- Voltage, Spike, Lighting and Surge Protection
- Built-in Automatic Voltage Regulator
- Cold Start Function
- Intelligent Battery Management
- Electronic Generator Mode for special application
- Low Noise Level with Smart Fan Speed Control
- Fault Alarms and State Warnings
- Intergrated Self Diagnostics
- Auto Restart While Ac is Recorvering
- Adjustable Voltage, Frequency and Battery Current
- Sleep Mode for Energy Saving
- Powerfactor Correction at Battery Operation
- Low Output THD on Battery (<3%)
- Easy Installation and Maintenance
- Compact Size

WIDE INPUT VOLTAGE TOLERANCE

Wide input voltage range of -55% to +25% allows inverter to work with harsh utility conditions and charge the batteries at low voltage conditions.

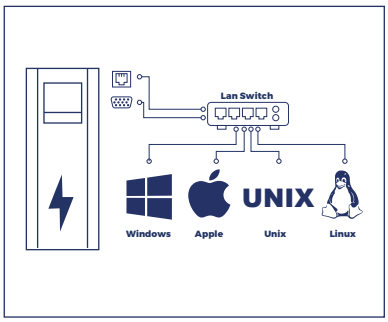
HIGH INRUSH CURRENT AVAILABILITY



Hybrex is designed to handle high inrush currents (three times of nominal current). Suitable for motor applications, air conditions and industrial heavy loads.

ADVANCED CURRENT AVAILABILITY

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SOFTWARE & CONNECTIVITY SOLUTION

- Local communication with RS232
- 2pcs configurable input contact.
- Relay board with alarms.
- GenSet contact.
- EPO contact
- USB.
- Remote Monitoring Panel.
- Battery Temperature Sensor for Temperature compensated charging.
- Modbus Local connection.
- SNMP IT Manager monitoring.
- Environment sensors for Data Centers (Humidity, Temperature, Smoke, etc.)
- PC & Server shutdown.
- Web page remote monitoring.
- E-mail alarm reporting.

HYBREX SERIES

MODEL	HYB 5000U1 HYB 5000U3	HYB 6000U1 HYB 6000U3
Capacity (VA)	5000	6000
Input		
Voltage Range	165VAC-280VAC (At AVR Mode)	
Adjustable Voltage Range	100VAC-280VAC (Without AVR Mode)	
Frequency	50 or 60Hz ±5%	
Output		
Power Factor	1 (U1 model) / 0,8 (U3 model)	
Voltage (At Battery Operation)	220VAC/230VAC/240VAC ±5%	
Wave Form	Sinewave	
Frequency (At battery operation)	50 or 60Hz ±5%	
Voltage Tolerance	±10% (At Avr Mode) ±2% (At Battery Mode)	
Transfer Time	4/6 ms	
Over Load	110% load 20 sec., 125% load 5 sec.	
Output Connection	Terminal	
Battery		
Type	VRLA-AGM / GEL Bakım Gerektirmeyen	
Voltage	48 VDC	
Charge Current	1-30A	
Protection	Protection Against Excessive Heat, Voltage, Current & Deep Discharge Protection, Battery Reserve Connection Protection (Optional)	
Display Panel		
	Input Voltage and Frequency, Output Voltage Tolerance, Frequency, Load Percentage, Battery Voltage, Warnings, Total Operation Time, Inside Temperature, Operation Mode	
Alarms		
	Mains Failure, Battery Low, Ower Load and Over Current, High and Low Voltage, Over Heat	
Protections		
	Spike Protection (320 joule, 2ms), Over Load, Short Circuit, Over Heat Protection, Over Voltage Protection, Battery Deep Discharge Protection	
Interface (Optional)	RS232, Output Relays, Input Contacts, Modbus, SNMP	
Options	Epo, Solar Connection, Remote Panel, Software	
Envorinment		
Operating Tempature	0-40°C	
Humidity	≤95%	
Altitude	<1000m	
Audible Noise (From 1m Distance)	≤45 dBA	
Protection Class	IP20 (Higher IP Ratings are optional)	
Physical Characteristics		
Dimensions HxWxD (mm)	635X256X580	
Net Weight (kg)	50	60
Compliance		
Standards	EN 62040-1-1 (Safety), EN 62040-2-2 (EMC)	

The company reserves the right to change specifications and designs without notice.

INNOVATIVE ENERGY SYSTEMS

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