



**1:1**  
PHASE

# **HYBREX SERIES**

## **HYBRID SINEWAVE**

### **INVERTER/CHARGER/SOLAR SYSTEMS**

from **1 - 3 kVA**



WALL MOUNT



LCD DISPLAY



TRANSFORMER  
BUILT-IN



EASY  
SERVICE



# **HYBREX** IS AN MULTI FUNCTIONAL INVERTER/CHARGER SYSTEM

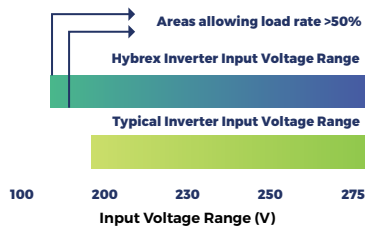
Including powerful battery charger with bypass function and optional solar function designed for high inrush currents, motor and industrial applications.

## 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.

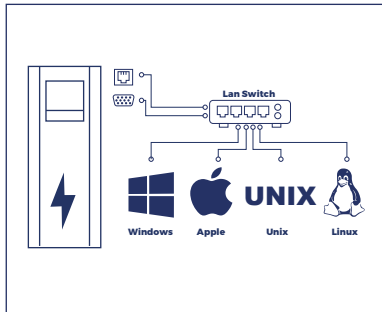


## HIGH INRUSH CURRENT AVAILABILITY

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

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



## SOFTWARE & CONNECTIVITY SOLUTION

- ◆ Local communication with RS232
- ◆ 2 pcs 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 1000 U1 HYB 1000 U3		HYB 2000 U1 HYB 2000 U3		HYB 3000 U1 HYB 3000 U3	
Capacity (VA)		1000		2000		3000	
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		24 Vdc		48 Vdc			
Charge Current		1-20A		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		≤1500m					
Audible Noise (From 1m Distance)		≤45 dBA					
Protection Class		IP20 (Higher IP Ratings are optional)					
Physical Characteristics							
Dimensions HxWxD (mm)		455 x 270 x 230					
Net Weight (kg)		36		38		40	
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

[www.innovasis.com.tr](http://www.innovasis.com.tr)

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