HyREI

3-phase | 2.0

HyREI - Hybrid Renewable Energy Island - is an Efficient and Smart Energy Converter thought to manage YOUR energy with greater flexibility, savings and availability 24h.

HyREI is high reliable and scalable converter for off-grid (WITHOUT or with STORAGE) and grid-connected applications. It can satisfy the energy demand, partial or total, of industrial and domestic users.

Up to 90% consumption saving

24h availability

optimized management

DC coupling AC coupling

voltage stabilization

modular cases

self-learning system

simultaneous use renewable energy sources

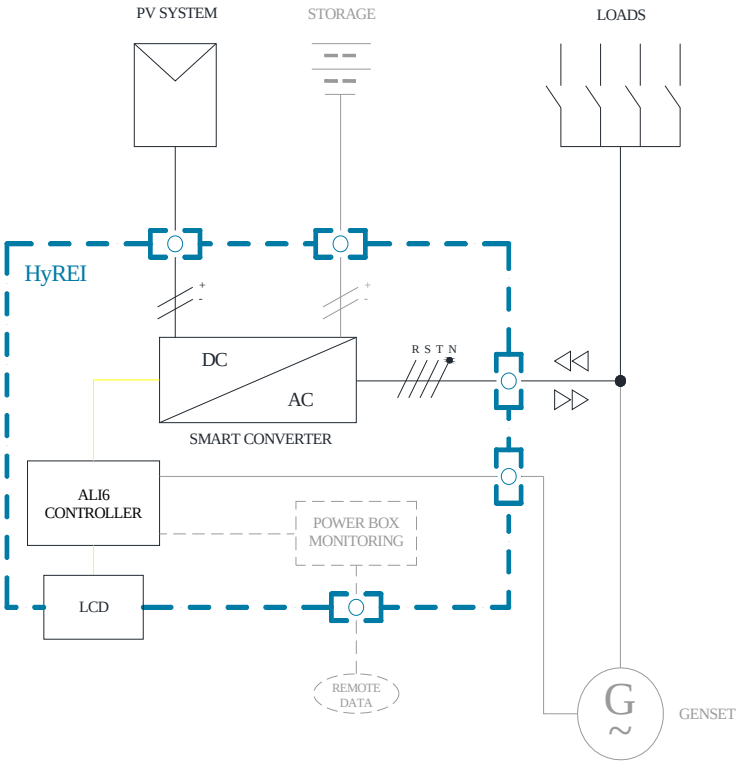
HyREI

3-phase | 2. 0

Dynamic

- ✓ Genset-based application
- ✓ True Hybrid configuration (Genset + PV) WITHOUT battery storage
- ✓ Modular and scalable sizes (from 10 kW to 1MW and more)
- ✓ Smart converter self power control
- ✓ Remote monitoring system
- ✓ Easy Grid/Genset coupling
- ✓ Optional storage plug
- ✓ PV stand-alone (genset off/grid off) mode*
- ✓ Bidirectional mode*
- ✓ Wind/Hydro/Fuel cells plugs*
- ✓ 20-70% fuel saving (up to 100% with storage)

HyREI Dynamic



HyREI
Dynamic

Dy10

Technical Data

SOLAR INPUT (DC)	
Suggested Power(kW)	10
Max Power (kW)	12
Voc	<780
Vmpp (range)	330-780
Rated Current (A)	20
Max Current (A)	25
Type (suggested)	Mono/Poly crystalline

AC OUTPUT	
Nominal Power (kVA)	10
Connection type	3-ph 400V±10% 50Hz
Waveform	Pure sine
Power factor (cosϕ)	1 (adjustable)

COMMUNICATION AND CONTROL	
Display	LCD
Communication	RS485

General Data

GENERAL DATA	
Dimensions (H x W x D mm)	1200.0 x 800.0 x 800.0
Weight (kg)	50
Working temperature	-10°C ÷ +40°C
Altitude	- Till to 1000 above sea level; - Besides 1000 m power reduction of 1% 100m.
Humidity (without condensation)	0-95% in condensation absence

PROTECTIONS	
Protection class	IP 40
Cooling	air cooled

ACCESSORIES	
Remote Loads control	Optional
PowerBox Monitoring System	Optional
Smart Manager Grid/Genset	Optional
Genset Driver	Optional

Last Review: 10/2015

HyREI
Dynamic

Dy20

Technical Data

SOLAR INPUT (DC)	
Suggested Power(kW)	20
Max Power (kW)	25
Voc	<780
Vmpp (range)	330-780
Rated Current (A)	40
Max Current (A)	50
Type (suggested)	Mono/Poly crystalline

AC OUTPUT	
Nominal Power (kVA)	20
Connection type	3-ph 400V±10% 50Hz
Waveform	Pure sine
Power factor (cosϕ)	1 (adjustable)

COMMUNICATION AND CONTROL	
Display	LCD
Communication	RS485

General Data

GENERAL DATA	
Dimensions (H x W x D mm)	1200.0 x 800.0 x 800.0
Weight (kg)	60
Working temperature	-10°C ÷ +40°C
Altitude	- Till to 1000 above sea level; - Besides 1000 m power reduction of 1% 100m.
Humidity (without condensation)	0-95% in condensation absence

PROTECTIONS	
Protection class	IP 40
Cooling	air cooled

ACCESSORIES	
Remote Loads control	Optional
PowerBox Monitoring System	Optional
Smart Manager Grid/Genset	Optional
Genset Driver	Optional

Last Review: 10/2015

HyREI
Dynamic

Dy30

Technical Data

SOLAR INPUT (DC)	
Suggested Power(kW)	30
Max Power (kW)	38
Voc	<780
Vmpp (range)	330-780
Rated Current (A)	65
Max Current (A)	80
Type (suggested)	Mono/Poly crystalline

AC OUTPUT	
Nominal Power (kVA)	30
Connection type	3-ph 400V±10% 50Hz
Waveform	Pure sine
Power factor (cosϕ)	1 (adjustable)

COMMUNICATION AND CONTROL	
Display	LCD
Communication	RS485

General Data

GENERAL DATA	
Dimensions (H x W x D mm)	1400.0 x 800.0 x 800.0
Weight (kg)	70
Working temperature	-10°C ÷ +40°C
Altitude	- Till to 1000 above sea level; - Besides 1000 m power reduction of 1% 100m.
Humidity (without condensation)	0-95% in condensation absence

PROTECTIONS	
Protection class	IP 40
Cooling	air cooled

ACCESSORIES	
Remote Loads control	Optional
PowerBox Monitoring System	Optional
Smart Manager Grid/Genset	Optional
Genset Driver	Optional

Last Review: 10/2015

HyREI
Dynamic

Dy50

Technical Data

SOLAR INPUT (DC)	
Suggested Power(kW)	50
Max Power (kW)	60
Voc	<780
Vmpp (range)	330-780
Rated Current (A)	100
Max Current (A)	125
Type (suggested)	Mono/Poly crystalline

AC OUTPUT	
Nominal Power (kVA)	50
Connection type	3-ph 400V±10% 50Hz
Waveform	Pure sine
Power factor (cosϕ)	1 (adjustable)

COMMUNICATION AND CONTROL	
Display	LCD
Communication	RS485

General Data

GENERAL DATA	
Dimensions (H x W x D mm)	1400.0 x 800.0 x 800.0
Weight (kg)	90
Working temperature	-10°C ÷ +40°C
Altitude	- Till to 1000 above sea level; - Besides 1000 m power reduction of 1% 100m.
Humidity (without condensation)	0-95% in condensation absence

PROTECTIONS	
Protection class	IP 40
Cooling	air cooled

ACCESSORIES	
Remote Loads control	Optional
PowerBox Monitoring System	Optional
Smart Manager Grid/Genset	Optional
Genset Driver	Optional

Last Review: 10/2015

HyREI
Dynamic

Dy100

Technical Data

SOLAR INPUT (DC)	
Suggested Power(kW)	100
Max Power (kW)	120
Voc	<780
Vmpp (range)	330-780
Rated Current (A)	200
Max Current (A)	250
Type (suggested)	Mono/Poly crystalline

AC OUTPUT	
Nominal Power (kVA)	100
Connection type	3-ph 400V±10% 50Hz
Waveform	Pure sine
Power factor (cosϕ)	1 (adjustable)

COMMUNICATION AND CONTROL	
Display	LCD
Communication	RS485

General Data

GENERAL DATA	
Dimensions (H x W x D mm)	1400.0 x 1000.0 x 800.0
Weight (kg)	120
Working temperature	-10°C ÷ +40°C
Altitude	- Till to 1000 above sea level; - Besides 1000 m power reduction of 1% 100m.
Humidity (without condensation)	0-95% in condensation absence

PROTECTIONS	
Protection class	IP 40
Cooling	air cooled

ACCESSORIES	
Remote Loads control	Optional
PowerBox Monitoring System	Optional
Smart Manager Grid/Genset	Optional
Genset Driver	Optional

Last Review: 10/2015

HyREI
Dynamic

Dy
Plug Opts

STORAGE PLUG	
Rated Voltage (Vdc)	480
Voltage Range (Vdc)	420-600 (adjustable)
Battery Type (suggested)	AGM/Gel/OpZV
Battery rack	Optional

OTHER INPUT GENERATORS (with storage plug)	
Wind	Optional
Hydro	Optional
Fuel cells	Optional

Last Review: 10/2015