

HÍBRIDO / *Sistemas de Todo en Uno* / Serie GreenE

Características principales

- *All-in-one*.
- Batería LFP, estable y segura.
- Diseño modular, *plug and play*.
- Rápida instalación: 30 min.
- Vida de más de 10.000 ciclos.
- 10 años de garantía de rendimiento.
- Plataforma en la nube y APP móvil.
- Paralelizable.
- BMS incorporado.
- Sistema On&Off Grid.

HYBRID / *All-in-One Systems* / GreenE Series

Main features

- All-in-one.
- LFP battery, stable and safe.
- Modular design, plug and play.
- Quick installation: 30 min.
- Life of more than 10000 cycles.
- 10 years performance warranty.
- Cloud platform and mobile APP.
- Parallelizable.
- Built-in BMS.
- On&Off Grid system.



HYBRIDE / *Systèmes Tout-en-un* Alle / Série GreenE

Caractéristiques principales

- *All-in-one*.
- Batterie LFP, stable et sûre.
- Conception modulaire, *plug and play*.
- Installation rapide: 30 min.
- Durée de vie de plus de 10000 cycles.
- Garantie de performance de 10 ans.
- Plateforme cloud et APP mobile.
- Parallélisable.
- BMS intégré.
- Système On&Off Grid.

Híbrido / *Sistemas de Todo en Uno* / Serie GreenE

Solución de Batería - GreenE (3,68-5)K

Seguridad

- Batería LFP, estable y segura.
- Módulo, pack, sistema, triple protección.
- IP65, instalación en el exterior.

Sencillo

- Diseño modular, una sola persona puede llevarlo e instalarlo.
- *Plug and play*, instalación rápida en 30 min.
- Ahorro de espacio: 0,15 m² de superficie.

Interconexión

- Plataforma global en la nube y APP móvil, en cualquier momento y en cualquier lugar.
- API abierta, admite aplicaciones de Internet.

HYBRID / *All-in-One Systems* / GreenE Series

Battery Solution - GreenE (3.68-5)K

Safety

- LFP Battery, stable and safe.
- Module, pack, system, triple protection.
- IP65, outdoor installation.

Simple

- Modular design, single person can carry and install it.
- Plug and play, 30 min quick installation.
- Space saving: 0.15 sq. m foot print.

Interconnection

- Global cloud platform & Mobile APP, anytime and any where.
- Open API, support power internet applications.



HYBRIDE / *Systèmes Tout-en-un Alle* / Série GreenE

Solution pour les batteries - GreenE (3.68-5)K

Sécurité

- Batterie LFP, stable et sûre.
- Module, pack, système, triple protection.
- IP65, installation en extérieur.

Simple

- Conception modulaire, une seule personne peut le transporter et l'installer.
- Plug and play, installation rapide en 30 minutes.
- Gain de place: 0,15 m² d'empreinte au sol.

Interconnexion

- Plateforme mondiale en nuage et APP mobile, à tout moment et en tout lieu.
- API ouverte, prise en charge d'applications Internet puissantes.

Especificaciones / Specifications / Spécifications

BATTERY MODEL	GreenE PACK 5.1
PHYSICAL	
Battery Type	LFP (LiFePO ₄)
System Weight	54 kg
Dimension, W x H x D	540 x 490 x 240 mm
IP Protection	IP65
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
ELECTRICAL	
Energy Capacity	5,12 kWh
Usable Capacity	4,6 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	51.2 V
DC Circuit Breaker	125 A
Operating Voltage Range	44.8 - 56.5 V
Internal Resistance	< 20 mΩ
Cycle Life	10000 cycle
OPERATION	
Maximum Charge / Discharge Current	50 A / 80 A
Rated DC Power	4096 W
Maximum Charge / Discharge Power	2825 W / 4096 W
Operating Temperature Range	0°C to 50°C charging; -10 to 50°C discharging
Humidity	0 ~ 95% (No condensation)
BMS	
Modules Connection	Maximum 5
Capacity	100 - 400 Ah
Power Consumption	< 2 W
Communication	CAN & RS485
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
CERTIFICATES	
Safety (Cell)	Pack: IEC / EN 62619; UN38.3 Cell: IEC / EN 62619; UN38.3; UL1973
Safety Certification	IEC 62040-1: 2017; IEC 62619: 2017; IEC 63056: 2020; UN38.3

* Máximo 5 baterías en paralelo. / Maximum 5 battery pack in parallel. / Maximum 5 batteries en parallèle.

Especificaciones / Specifications / Spécifications

HYBRID INVERTER MODEL	GreenE 3680	GreenE 5000
PV STRING INPUT		
Maximum Continuous PV Input Power	4.78 kW	6.5 kW
Maximum DC Voltage	580 V	
Nominal Voltage	400 V	
MPPT Voltage Range	80 V - 560 V	
Start Voltage	130 V	
Number of MPP Tracker	2	
Strings per MPP Tracker	1	
Maximum Input Current per MPPT	15 A	
Maximum Short-Circuit Current per MPPT	18 A	
AC OUTPUT (GRID)		
Nominal AC Output Power	3680 W	5000 W
Maximum AC Apparent Power	7360 VA (from grid)	7360 VA (from grid)
Maximum AC Output Power	3680 W	5000 W
Nominal AC Voltage	230 Vac	
AC Grid Frequency Range	50 / 60 Hz $\pm$ 5 Hz	
Maximum Output Current	16 A	22 A
Maximum Input Current	32 A	
Power Factor (cos Φ)	0.8 leading - 0.8 lagging	
THDi	< 3%	
BATTERY INPUT		
Battery Type	LFP (LiFePO ₄)	
Nominal Battery Voltage	48 V	
Maximum Charging Voltage Range	40-60 V	
Maximum Charging Current	50 A	100 A
Maximum Discharging Current	80 A	100 A
Battery Capacity	100 - 400 Ah	
Charging Strategy for Li-Ion Battery	Depend on the BMS	
AC OUTPUT (BACKUP)		
Maximum Output Apparent Power	4000 VA	5000 VA
Peak Output Apparent Power	6900 VA 10 s	
Maximum Output Current	16 A	20 A
Nominal Output Voltage	230 V $\pm$ 0.2%	
Nominal Output Frequency	50 / 60 Hz $\pm$ 0.2%	
Output THDv (@Linear Load)	< 3% (Linear Load)	

Especificaciones / Specifications / Spécifications

HYBRID INVERTER MODEL	GreenE 3680	GreenE 5000
EFFICIENCY		
Maximum PV Efficiency	97.6%	
European PV Efficiency	97.0%	
PROTECTION		
DC Switch	Bipolar DC Switch (125 A / Pole)	
Anti-islanding Protection	Yes	
Output Over Current	Yes	
DC Reverse Polarity Protection	Yes	
String Fault Detection	Yes	
AC / DC Surge Protection	DC Type II; AC Type III	
Insulation Detection	Yes	
AC Short Circuit Protection	Yes	
GENERAL SPECIFICATIONS		
Dimensions, W x H x D	540 x 590 x 240 mm	
Weight	32 Kg	
Operating Temperature Range	-25°C ~ 60°C	
Noise (dB)	< 25	
Cooling Type	Natural Convection	
Maximum Operation Altitude	2000 m	
Maximum Operation Humidity	0 ~ 95% (No Condensation)	
IP Class	IP65	
Topology	Battery Isolation	
Communication	RS-485 / CAN2.0 / Wi-Fi / 4G	
Display	LCD / APP	
CERTIFICATES		
Safety Certification	IEC 62109-1: 2010; EN 62109-1: 2010; IEC 62109-2: 2011; EN 62109-2: 2011	
Environment Certification	IEC 60068-2-1: 2007; IEC 60068-2-2: 2007; IEC 60068-2-14: 2009; IEC 60068-2-30: 2005	
Efficiency Certification	IEC 61683: 1999	
Spanish On Grid Certification	UNE217001; UNE217002; UNE206007; NTS V2.1 Type A	
EMC (Latest Version)	EN / IEC 61000-6-1: 2019; EN / IEC 61000-6-3: 2021; EN / IEC 61000-6-2: 2019; EN / IEC 61000-6-4: 2019; EN / IEC 61000-3-11: 2019; EN 61000-3-12: 2011	
Other Certification	IEC60529; IEC62116; IEC61727; EN50549-1; AS 4777.2; NRS 097; VDE-AR-N-4105; CEI0-21; G98; G99; C10 / C11	

Especificaciones / Specifications / Spécifications

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Sistema GreenE / GreenE System / Système GreenE

MODEL	GreenE 10K
PV STRING INPUT	
Maximum Continuous PV Input Power	20 kW
Maximum DC Voltage	1100 V
Nominal Voltage	720 V
MPPT Voltage Range	140 - 1000 V
MPPT Range (Full Load)	420 - 850 V
Start Voltage	130 V
MPPT Tracker / Strings	2 / 2
Maximum Input Current per MPPT	15 A
Maximum Short-Circuit Current per MPPT	20 A
AC OUTPUT (GRID)	
Nominal AC Output Power	10 kW
Maximum AC Apparent Power	11 kVA
Nominal AC Voltage	400 Vac 3 W + N + PE
AC Grid Frequency Range	50 / 60 Hz
Maximum Output Current	14.5 A
Maximum Input Current	16 A
Power Factor (cosΦ)	0.8 leading - 0.8 lagging
BATTERY INPUT	
Battery Type	LFP (LiFePO ₄)
Nominal Battery Voltage	48 V
Charging Voltage Range	40 - 60 V
Maximum Charging Current	200 A
Maximum Discharging Current	200 A
AC OUTPUT (BACKUP)	
Maximum Output Apparent Power	10 kVA
Rated Output Power	9.2 kW
Rated / Maximum Output Current	14.5 A / 16 A
Nominal Output Voltage	400 V
Nominal Output Frequency	0 / 60 Hz (± 2%)
Output THDv (@Linear Load)	< 3% (Linear Load)

Especificaciones / Specifications / Spécifications

MODEL	GreenE 10K
PROTECTION	
Anti-islanding Protection	Yes
Output Over Current	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Yes
AC / DC Surge Protection	DC Type II; AC Type III
Insulation Detection	Yes
AC Short Circuit Protection	Yes
GENERAL SPECIFICATIONS	
Dimensions, W x H x D	540 x 980 x 240 mm
Weight	42 Kg
Operating Temperature Range	-25°C ~ 60°C (Derating > 45°C)
Noise (dB)	< 25
Cooling Type	Natural Convection
Maximum Operation Altitude	3000 m (Derating > 2000 m)
Operation Humidity	0 ~ 95% (No Condensation)
IP Class	IP65
Topology	Battery Isolation
Communication	RS485 / CAN2.0 / Wi-Fi / 4G
Display	LCD / APP
CERTIFICATES	
Safety Certification	IEC 62109-1: 2010; EN 62109-1: 2010; IEC 62109-2: 2011; EN 62109-2: 2011
Environment Certification	IEC 60068-2-1: 2007; IEC 60068-2-2: 2007; IEC 60068-2-14: 2009; IEC 60068-2-30: 2005
Efficiency Certification	IEC 61683: 1999
Spanish On Grid Certification	UNE217001; UNE217002; UNE206007; NTS V2.1 Type A
EMC (Latest Version)	EN / IEC 61000-6-1: 2019; EN / IEC 61000-6-3: 2021; EN / IEC 61000-6-2: 2019; EN / IEC 61000-6-4: 2019; EN / IEC 61000-3-11: 2019; EN 61000-3-12: 2011
Other Certification	IEC60529; IEC62116; IEC61727; EN50549-1; AS 4777.2; NRS 097; VDE-AR-N-4105; CEI0-21; G98; G99; C10 / C11