

GUCB **R** **HYBRID** **GENERATOR**

30 kVA Diesel Genset
61,4 kWh Battery Bank
30 kW Invertor/Charge
580Wx7 Pcs. PV Solar Panels
Multi-Axle Trailer



GENSET

Standby Power [kVA]	33
Prime Power [kVA]	30
Voltage [V]	230/400
Frequency [Hz]	50
Type	Mounted on a multi-axle trailer, consisting of a diesel generator set, 30kW inverters/chargers, 4,06 kWp a photovoltaic system which is integrated into the trailer roof (housing) in an extendable or fold-out manner, and 61,44 kWh battery bank including power distributor



ENGINE

Brand	Lister Petter
Engine Model	Starlite / SA432G1
Engine Type	4 Stroke - Diesel
Fuel Type	Diesel
Engine kW / Number of Cylinders	35 / 4
Charging Voltage	12V



ALTERNATOR

Brand	Maranello	
Model	M33	
Output Voltage	V	230/400
Frequency	HZ	50
Automatic Voltage Regulation	±%	1
Standby Power	kVA	33
Continuous Use Power	kVA	30

CONTROLLER



SGC120



DEIF - AMF AUTO START CONTROL MODULE

- Generator controller in a micro-grid system
- Adaptive mimic, with easy switching between applications.
- Compact design making it suitable for all applications.
- Only buttons relevant for a function are visible to the user.
- Configurable shortcuts give the user easy access to frequently used functions.
- Programmable functions (M-Logic) in a user-friendly environment.
- View historical alarms and events on the display and with the Utility Software
- View important genset and/or system information on the easy to-read graphical display, shown as text, symbols, numbers, and even a graphical synchroscope.

102Ah

[Product Appearance Description]



Renderings

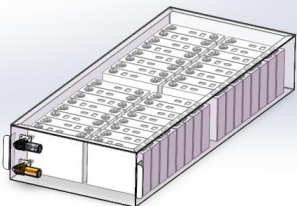


Real Product Image

Note: The above shows the legend of a single lithium iron phosphate cell. The left rendered image is for promotional use only, while the right one is the actual shipped product. Shipments are subject to the actual product.



Single Battery Features	Model Number	LF100LA
	Nominal Voltage	3,2V
	Min. Energy	320Wh
	Nominal Capacity	102Ah
	Nominal Cycles (times)	5000
	Initial IR	≤0.5mΩ
	Weight (g)	1985±100
	Width*Thickness*Height (mm)	160.0*50.1*118.5
	Standart Charge/Discharge Ratio	1C/1C
	Charging Temperature	0°C ~ 65°C
	Discharging Temperature	-20°C ~ 65°C
Battery Bank	Number of Batteries	192 pcs.
	Total Power	61,44 kWh
	Total Battery Weight	381,12



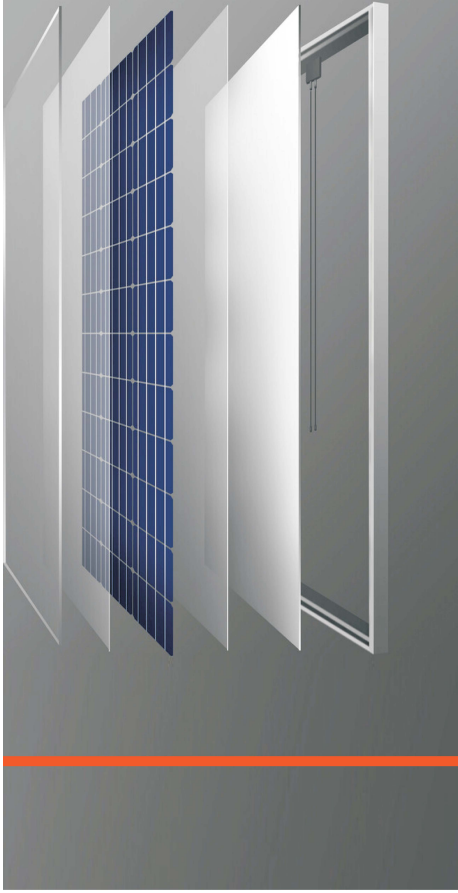
Product Certification



INVERTOR TECHNICAL DATA / SINOSOAR SP30HBG2

Parameter	SP30HBG2
Battery Parameters	
Maximum Battery Voltage	850V
Minimum Battery Voltage	200V
Rated Battery Voltage Range	320V-850V
Maximum battery current	100A
PV Parameters	
Maximum Power	19.2kW + 19.2kW
Maximum PV Voltage	850V
PV start voltage	250V
MPPT voltage range	200V-830V
Maximum PV Current	32A + 32A
AC Side (Grid-Connected)	
Rated Power	30kVA
Rated Current	43.5A
Rated mains voltage	400V/230V
Mains voltage range	-20% to +15%
Grid frequency range	50Hz/47Hz to 52Hz
	60Hz/57Hz to 62Hz
Current harmonics	<5% (at loads exceeding 30%)
Power Factor	-0.8 to 0.8 (see Figure 3)
AC side (off-grid)	
Rated Output Power	30 kVA
Maximum Output Power	33 kVA
Rated Output Current	43.5 A
Maximum Output Current	48 A
Rated voltage	400V/230V
Output voltage harmonics	<3% (resistive load)
Unbalance	100%
Frequency range	50/60Hz
Output overload (current)	48A < Iload ≤ 54A / 100s
Communication Port	EMS: RS485
DIDO	DI: 2 channels; DO: 2 channels
Maximum Efficiency	97.8%
Mounting method	Plug-in frame
Power consumption	Standby <10W, no-load power <100W
Weight	35kg
Dimensions	W × L × H: 440 × 560 × 183 mm
Temperature Range	-30 to 60°C
Humidity Range	5-95%
Cooling Method	Intelligent forced air cooling
Certifications	CE, IEC 62019, IEC 62477, IEC 6100, EN 50549





N-Type Topcon Module

Half cut mono
Topcon module

144 cells

Output power
range

575-595W

Efficiency

23.0%

Dimension

2279 mm × 1134 mm × 30mm



Excellent lower
temperature coefficient



Passed Anti-PID test



12 years YXIO PV warranty



Excellent lower
shading and resistive loss



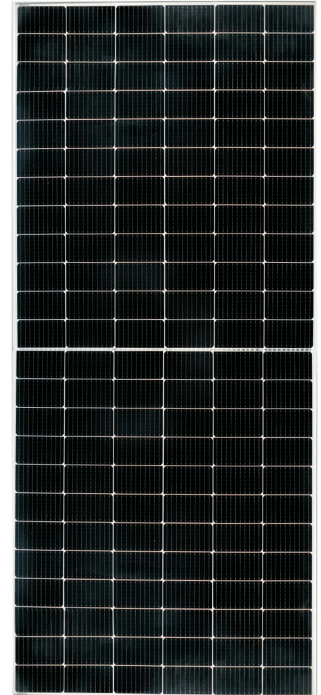
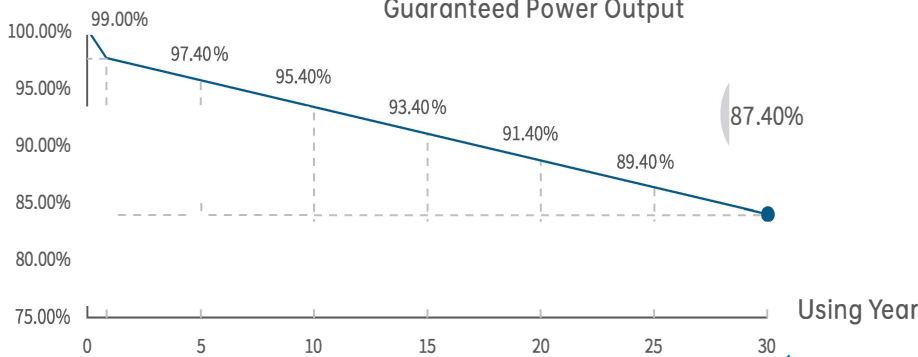
Passed salt mist test,
ammonia test,
dust & sand test
Passed fire test class I



0/+5 power tolerance

INDUSTRY-LEADING LINEAR WARRANTY

Guaranteed Power Output



SYSTEM CERTIFICATE



ISO9001	2015	Quality Management System
ISO14001	2015	Environment Management System
ISO45001	2018	Occupational Health and Safety Management System

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Serifali Mahallesi, Tavukcuyolu Cad. No:200 -Umraniye / ISTANBUL

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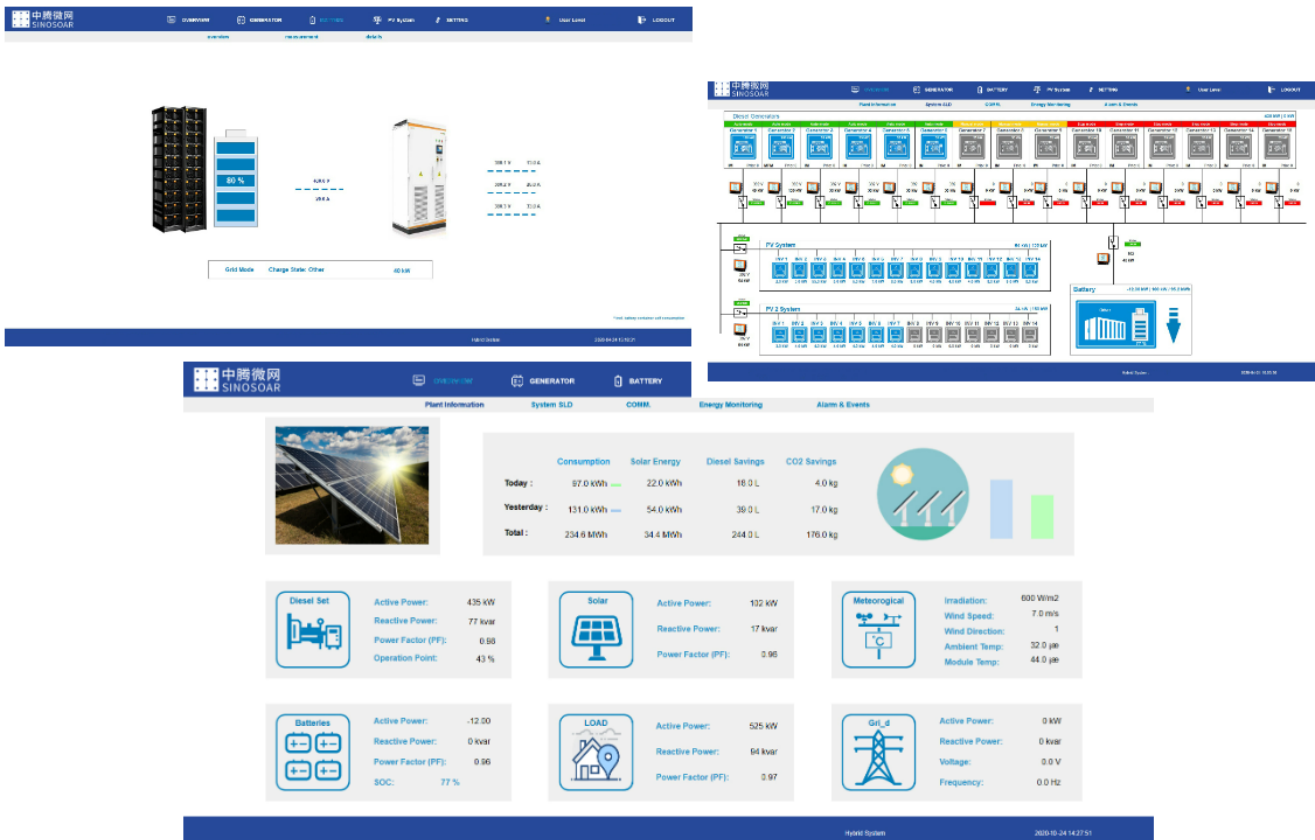
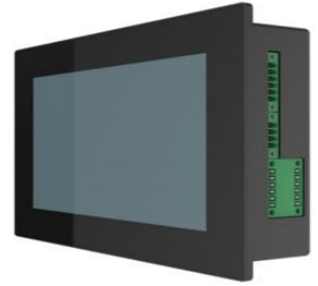
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GUCBIR
GENERATOR

EMS (Energy Management System) / Sinoar SAEMS100

The key to tapping the enormous potential of hybrid solutions is an advanced intelligent management of the power sources involved: The Sinoar Hybrid System operates on an intelligent control unit which ensures that as much PV-energy as possible is used and still keeps the genset in its optimum working range. In this manner, Sinoar Hybrid System offers all the benefits of a hybrid system.



SINOAR EMS



Gen Controller



PV Controller



Wind Controller



Hydro Controller



BESS Controller



Load Controller

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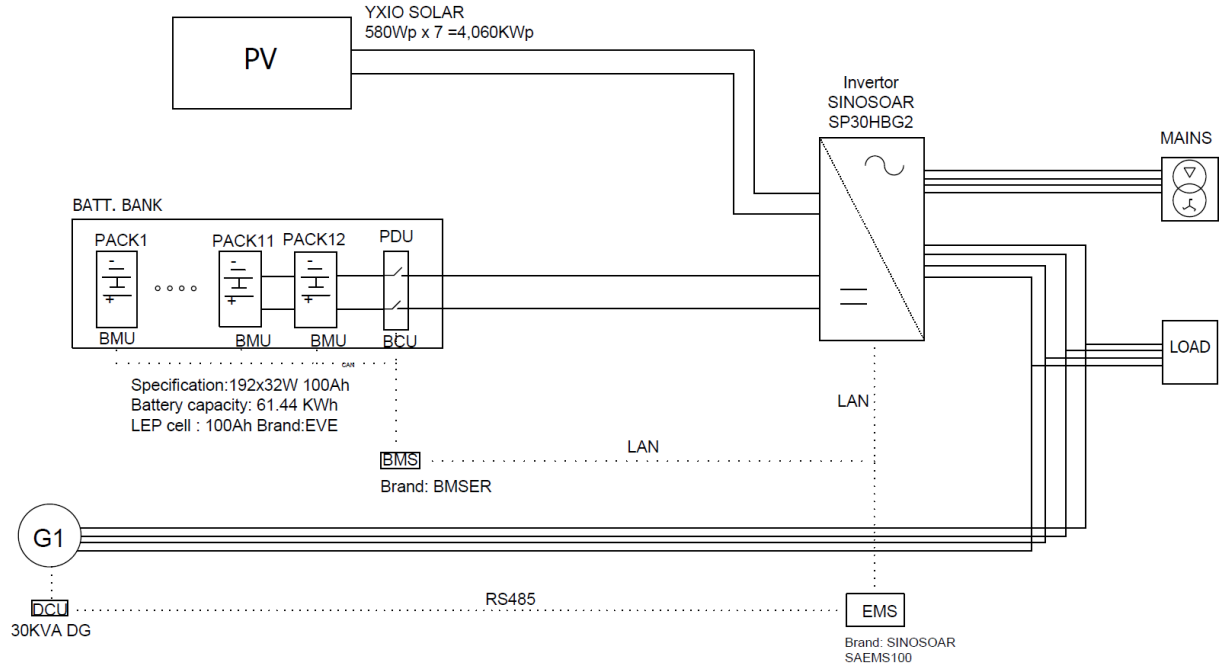
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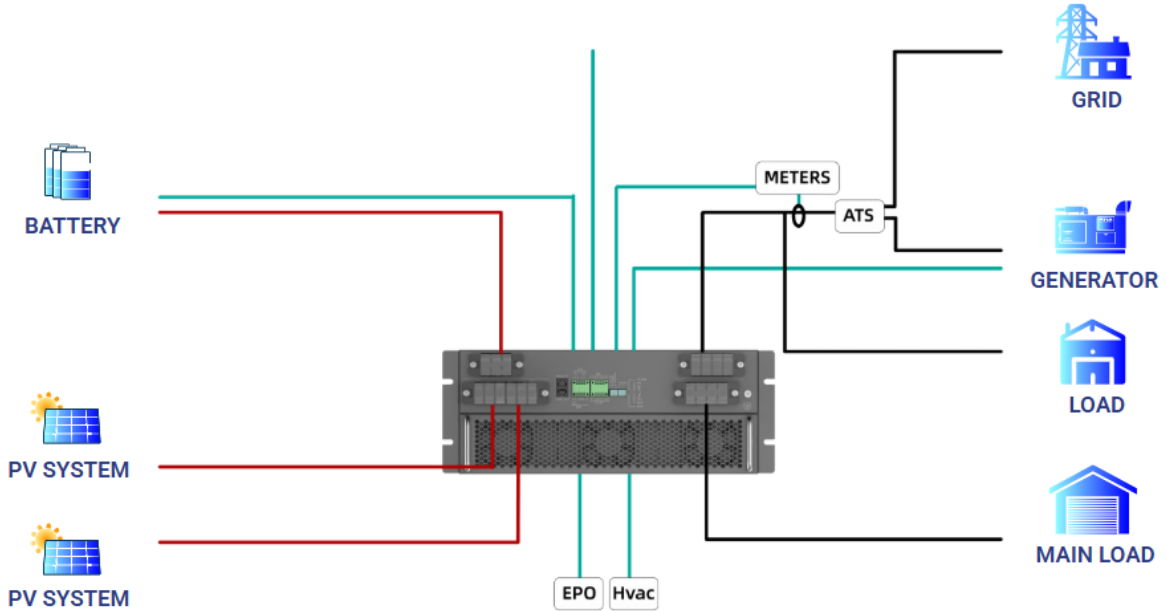
GUCBIR
GENERATOR

DIAGRAM / SYSTEM



— AC BUS
— DC BUS
— Communication Line

MONITOR 4G/WIFI



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GUCBIR
GENERATOR

PHOTOS



DIMENSIONS

L X W X H : 4,90 x 1,70 x 3,70
WEIGHT : 3500 kg.

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