

Solar Power Systems for Jordan

ADVANTAGES

- + No need for approval*
- + Uninterruptable power supply (UPS function)
- + Save money at peak charge times and even at night

HYBRID: SAVE ON GRID POWER AND BECOME INDEPENDENT!

With the HYBRID systems, elgris offers a scalable platform for a high quality three phase power system targeting power solutions between 20 kVA and 500 kVA.

The HYBRID systems accept sources from the grid, existing or new generators, storage systems and photovoltaic modules.

The unique features of the elgris HYBRID systems define new standards in term of commissioning time, durability and performance.

The input and output of the system are not connected so a bad quality grid and/or generator can be upgraded with the HYBRID system to create a clean, stable and reliable grid with savings by means of using photovoltaic.

If you don't want to sell the excess of power produced by the solar system to the grid but only use the grid for the shortage on power, there is even no need for approval from the grid authority for the installation.

With the elgris HYBRID SYSTEM CONTROLLER any photovoltaic system can be connected to a grid, even when local regulations do not allow feed in*.

* When the feed-in function is not available.



Technical overview		MODEL										
		elgris M1		elgris M2		elgris M3					elgris M4	
Capacity	kVA	20	40	60	80	100	120	160	200	250	400	500

INPUT	
Terminals	L1, L2, L3, N, PE
Rated Voltage	380/400/415VAC
Voltage Range	208~478VAC
Frequency Range	40 Hz-70Hz
Power Factor	≥0.99
THDi	≤3%
Generator input	Supported

OUTPUT	
Terminals	L1, L2, L3, N, PE
Rated Voltage	380/400/415VAC
Power Factor	0.9
Voltage Regulation	±2%
Frequency	50/60Hz ±0.2%
Crest Factor	3:1
THD	≤2% (linear load) / ≤5% (non linear load)
Waveform	Pure Sinewave

EFFICIENCY	
Input to output	max. 95%

SOLAR INPUT	
Number of inputs	On request, minimum is 1
Rated current	20 A per input
Max PV power	20 kWp per input
MPPT range	600 – 850 V
Maximum Voc	900 V
Ambient temperature	-25 ~ 55°C

PROTECTION	
Overload	≤110% for 10 min, ≤125% for 1 min, ≤150% for 15 sek, ≥150% shut down immediately
Self-diagnostics	Upon Power On and Software Control
EPO	Shut down immediately
Battery	Advanced Battery Management

REGULATIONS / STANDARDS	
Safety	EN 62040-1
EMC	EN 62040-2 Class C3
Certifications	CE

MECHANICAL	
Dimensions (HxWxD mm)	1200 x 600 x 780
Weight in kg	175
Protection	IP20
Operating temperature	-25 ~ 55°C
Humidity / Altitude	0~95% non condensing / < 1500m
Audible noise	< 55dB @ 1m

COMMUNICATION	
Status LED & LCD	Line Mode, Eco Mode, Bypass Mode, Busvoltage Low, Overload & Fault
LCD display	In-/output Voltage, in-/output Frequency, Load [%], Busvoltage
Alarm (optical & acoustical)	Line Failure, Busvoltage low, Overload, System fault

Modifications and errors excepted / specifications can change without notification
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