

Solar Power Systems for the Philippines

ADVANTAGES

- + Direct Savings of Fuel
- + Uninterruptable Power supply (UPS function)
- + Save money and increase power quality

MADE

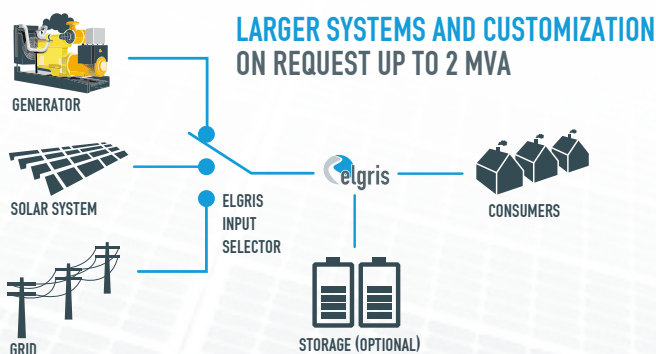
IN

GERMANY

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HYBRID: SAVE ON POWER COSTS 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 constant power supply with savings by means of using photovoltaic.

With the elgris HYBRID SYSTEM CONTROLLER any photovoltaic system can be connected to a grid or generator.



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				1600x600x780			1600x600x850		2000x600x850	
Weight in kg	175	198	229	235	326	356	398	453	580	892	990
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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