



Gamesa E-630 kW

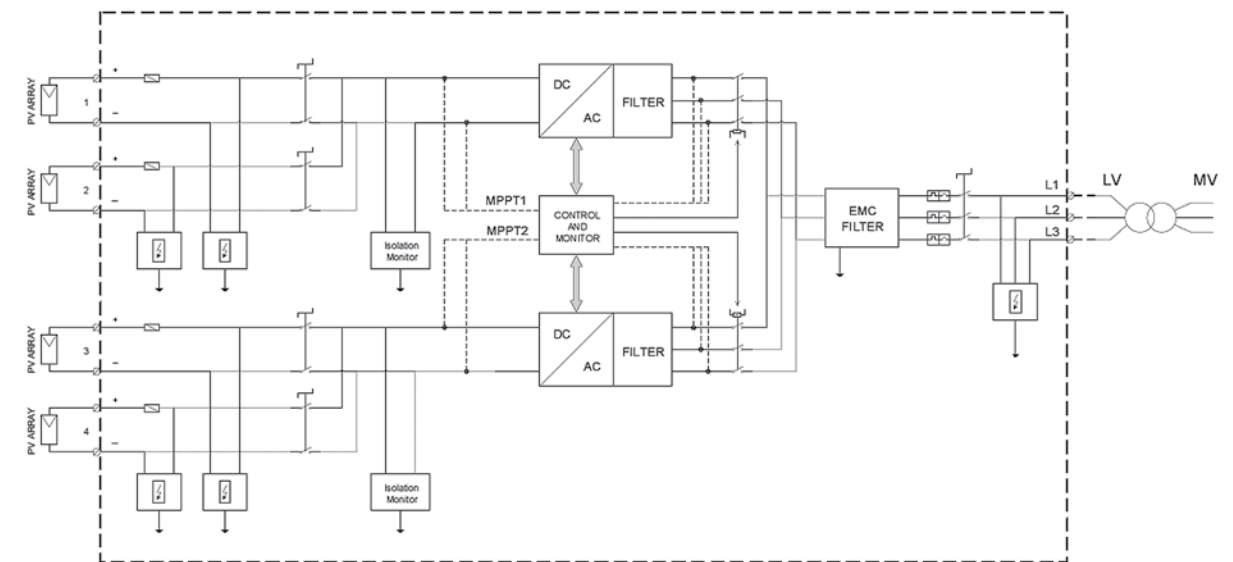
- ▶ Maximum reliability and robustness, underpinned by Gamesa's experience in the demanding wind energy sector.
- ▶ Optimal performance combined with a high degree of flexibility in the design and the layout of the solar plant panels.
- ▶ Ventilation system that prevents overheating and accumulation of dust.
- ▶ Designed to comply with the most stringent grid connection codes in even the most demanding of environmental conditions (resistant to extreme temperatures).
- ▶ Compatible with a wide range of photovoltaic panels of different technologies, including thin-film panels.
- ▶ Extra functions by means of optional kits.

TECHNICAL SPECIFICATIONS

DC input values		Performance	
Rated power	750 kWp	Max. performance	98.3%
Max. Direct Current	1,200 Acc	European performance	98.0%
Direct Current voltage range	500 - 900 V (1,000 V kit)	Californian-efficiency	98.1%
DC MPPT voltage range	500 - 820 V	Power consumption on Stand-by	< 150 W
No. of DC inputs	4	Other features	
Max. cable section per input	2 x 300 mm ²	MPPT	2
Start of production	0.5% Pn approx.	LVRT	Yes
AC output values		Temperature range	-10°C / +45°C (+65°C) ⁽²⁾⁽³⁾
No. of phases	3	Relative humidity @ 40°C	50%
Rated AC power	630 kW	Relative humidity @ 20°C	85% (without condensation)
Maximum AC power	690 kW ⁽¹⁾	Max. Altitude	3,000 m
Rated AC voltage	340 Vrms	Size (length x height x depth)	2,600 x 2,156 x 800 mm
AC voltage range	-15% / +10%	Weight	1,600 kg
Output frequency range	47.5...53/57.63 Hz	IP protection	IP 20
Power factor	0.9 IND - 0.9 CAP	Cooling	7,000m ³ /h
AC harmonic distortion (THD)	<3% @ Pn	Main standards	
Rated AC per phase	1,070 Arms	EN 61000-6-2, EN 61000-6-4, EN 50178, VDE 0126-1-1, ENEL standard, CE, UL-1741	
Max. AC per phase	1,190 Arms	For more information, please contact Gamesa Electric.	
Max. AC cable section per phase	2 x 400 mm ²		

- (1) Under rated conditions.
 (2) With reduced power.
 (3) Optional -20°C.

STANDARD CONFIGURATION



The best option for utility scale photovoltaic facilities and rooftop systems:

- ▶ Employs two MPPT systems for optimal performance, affording a high degree of flexibility in solar plant design.
- ▶ Highly reliable Control Unit (CCU) designed to comply with the most stringent grid connection codes and extreme operating conditions. CCU technology in photovoltaic solutions thus compliments the worldwide installation of over 5,000 units of this CCU.
- ▶ Compatible with a wide range of photovoltaic modules and technologies thanks to the 2 MPPT trackers, even with thin-film solar panels.
- ▶ Programmable harmonics cancellation.
- ▶ It has an innovative ventilation system that prevents overheating and accumulation of dust.
- ▶ Complies with the most stringent grid connection codes, including voltage drop support requirements (LVRT).
- ▶ Allows various parallel inverters to be connected, thereby affording different multi-megawatt solutions.
- ▶ Optional kits can also be added, such as compensation to support the power grid.

Interfaces

Touchscreen.
 Communication protocol.
 MODBUS-TCP/IP.
 TCP-IP connection.
 Ethernet (CAN/PROFIBUS, etc)⁽¹⁾

(1) Optional.

Protections

Polarity inversion.
 Transient DC and AC surge.
 DC and AC short-circuit.
 Photovoltaic plant insulation.
 Over temperature.
 Islanding protection.
 Correct Phase Sequence.
 AC overload.

Standards

CEM: EN 61000-6-2, EN 61000-6-4
 EN 50178
 VDE-0126-1-1
 ENEL standard
 CE conformity
 UL-1741

Other: contact the manufacturer.

Optional solution and kits

Building solution.
 1000 Vdc kit.
 Low temperature kit.
 Dehumidifier kit for tropical environments.
 DC grounding kit.
 Master-slave kit.
 String Boxes.