



## Gamesa E-1 MW

- ▶ Maximum reliability and robustness, underpinned by Gamesa's experience in the demanding wind power sector.
- ▶ Highly competitive CoE, based on technological innovation and continual improvement.
- ▶ Designed for simple maintenance.
- ▶ Designed to comply with the most stringent grid connection codes in even the most demanding of environmental conditions.
- ▶ High power density, complete solution in a 20-ft container.

### TECHNICAL SPECIFICATIONS

#### DC input values

Recommended rated power	1,200 kWp
Max. Direct Current	1,800 A
Direct Current voltage range	570 - 1,000 V
DC MPPT voltage range	570 - 910 V
No. of DC inputs	12
Max. cable section per input	2 x 300 mm <sup>2</sup>
Start of production	0.5% Pn approx.

#### AC output values

No. of phases	3
Rated AC power	1,000 kW
Maximum AC power	1,100 kW <sup>(1)</sup>
Rated AC voltage	360 Vrms
AC voltage range	-15% / +10%
Output frequency range	47.5...53/57...63 Hz
Power factor	0.76 IND - 0.76 CAP
AC harmonic distortion (THD)	<3%@Pn
Rated AC per phase	1,600 Arms @ PF=1
Max. AC per phase	2,100 Arms @ -15%V PF=0.9
Max. AC cable section per phase	4 x 300 mm <sup>2</sup>

- (1) Under rated conditions.  
 (2) With reduced power.  
 (3) Tubes and heat exchanger included with supply.

#### Performance

Max. performance	98.6%
European performance	98.4%
Californian-efficiency	98.4%
Power consumption on Stand-by	< 200 W

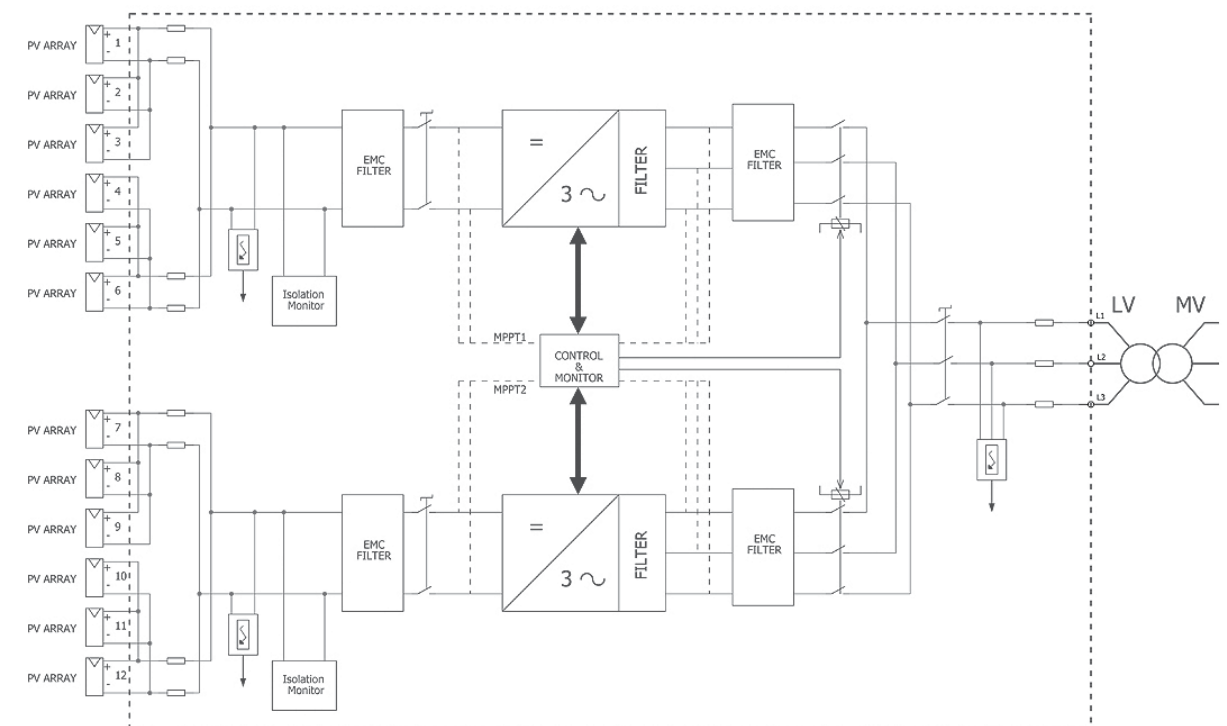
#### Other features

MPPT	2
LVRT	Yes
Temperature range	-20°C/+50°C (+65°C) <sup>(2)</sup>
Relative humidity @ 40°C	50%
Relative humidity @ 20°C	85% (without condensation)
Max. Altitude	3,000 m
Size (length x height x depth)	2,450 x 1,840 x 975 mm
Heat Exchanger size	1,000 x 1,200 x 600 mm
Weight	1,700 kg
IP protection	IP 20, interior
Cooling	Water and Forced Air <sup>(3)</sup>

#### Main standards

EN 61000-6-2, EN 61000-6-4, EN 50178, CE Marking, CCG.  
 For more information, please contact Gamesa Electric.

### STANDARD CONFIGURATION



### VALIDATED EXPERIENCE & CUTTING-EDGE TECHNOLOGY

The Gamesa E-1 MW water-cooled central inverter has inherited the technological concepts developed in the Gamesa E-630 kW, E-500 kW and E-100 kW central inverters throughout more than 20 years of experience. It presents the necessary improvements and technology to conform to the most demanding international grid-connection codes and facilitate the integration of photovoltaic plants in weak grids.

With unit capacity of 1 MW, this new model reduces the cost/kW, offering a modular solution in a 20-ft container.

### GLOBAL RELIABILITY

Gamesa Electric harnesses the technological and productive capacities of a top international Group: Gamesa. With its network of maintenance services in over 30 countries spanning five continents, the company offers solutions adapted to the needs of its customers in the various sectors, ensuring maximum reliability under the most demanding conditions.

Cutting-edge power electronics technology applied to photovoltaic products for high performance, robustness and global reliability.