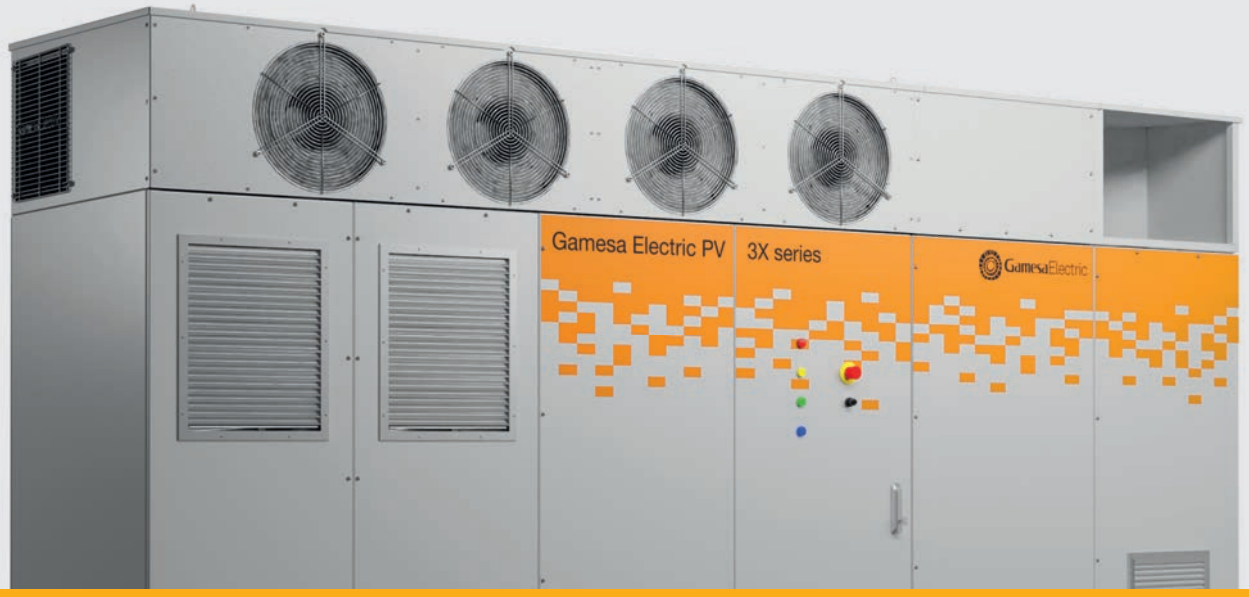
GamesaElectric

LISTED



Gamesa Electric PV 3X series

PV Inverters

Maximum energy and versatility
for utility-scale projects

2021 | Datasheet

TDHi <1%

MPPT efficiency 99.9%

Outdoor solution

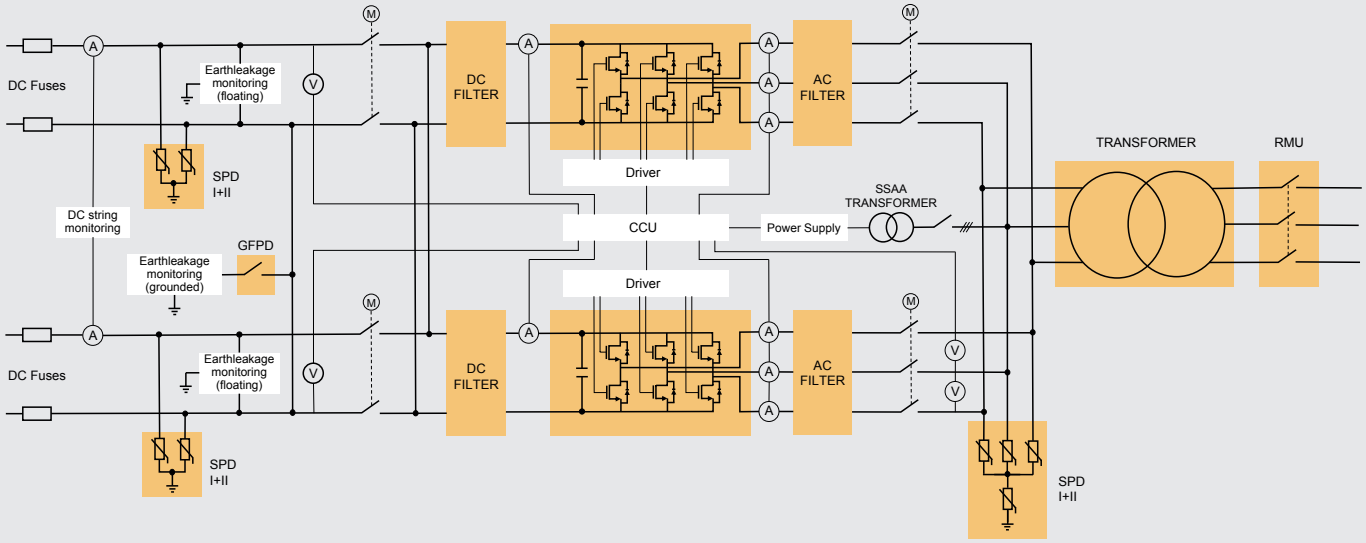
Up to 200% DC/AC ratio

Gamesa Electric PV 3X series
High-power PV Inverter family

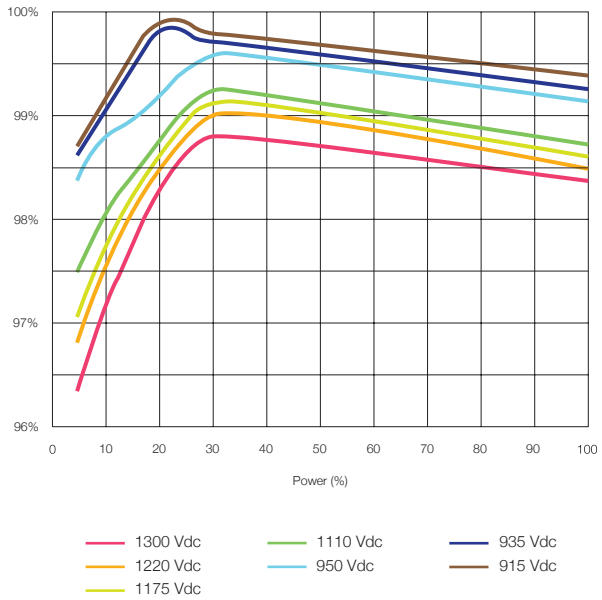
Better LCoE	Largest single inverter power block in the market with 4,700 KVA	Fewer inverters per project thus lower Capex and Opex	DC/AC ratio of up to 200%
Higher yield	Market-leading efficiency with 99.4%	THDi < 1% which reduces losses	Enhanced temperature derating: keeping full power up to 104ºF
Built to last	Designed and manufactured for a 30 year life span	CooBrid: Smart hybrid cooling system that allows critical components to work far below the temperature limit	Lowest THDi in the market helps to extend power transformers lifespan

The Gamesa Electric PV 3X series inverters combine high power with maximum versatility for PV plants LCoE reduction.

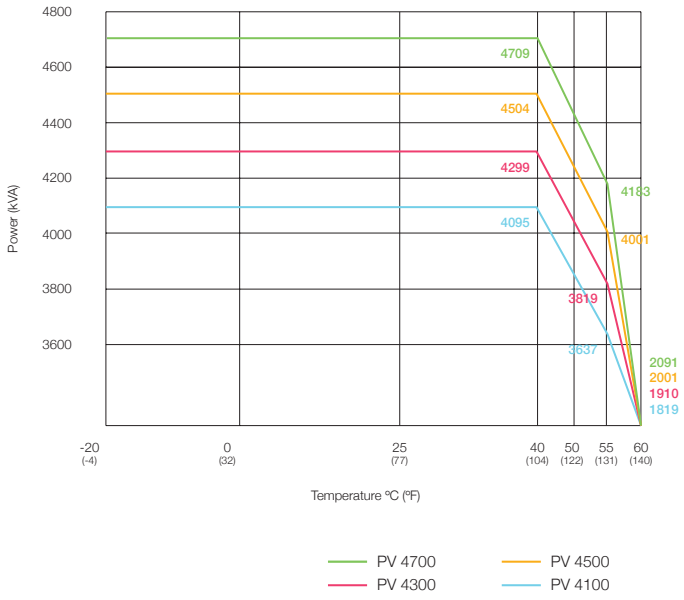
Different product configurations available to optimize performance in demanding environments as well as different voltage levels to fit customers' needs.



Efficiency



Configurations
Up to 4700 kVA at 1300 V



	PV 4100	PV 4300	PV 4500	PV 4700
DC Input				
Ratio DC / AC	Up to 200%			
Max. DC Current @77ºF [25ºC]	2 x 2500 A			
Max. DC Current @104ºF [40ºC]	2 x 2500 A			
Max. DC Current @131ºF [55ºC]	2 x 2220 A			
Max. DC Current @140ºF [60ºC]	2 x 1110 A			
Maximum Short-circuit Current, I_{sc} PV	Up to 9000 A			
DC Voltage Range	835 - 1500 V	875 - 1500 V	915 - 1500 V	955 - 1500 V
DC Voltage Range MPPT	835 - 1300 V	875 - 1300 V	915 - 1300 V	955 - 1300 V
Nr of DC Ports	max 24 fuse +/- monitored max 36 fuse + monitored			
Fuse Dimensions	125 A to 500 A			
Max. Wire Cross Section per DC Input	2 x 400 mm^2 - 800 AWG			
MPPT	1			
Energy Production from	0.5% Pn approx.			
AC Output				
Nominal AC Power @77ºF [25ºC]	4095 kVA	4299 kVA	4504 kVA	4709 kVA
Nominal AC Power @104ºF [40ºC]	4095 kVA	4299 kVA	4504 kVA	4709 kVA
Nominal AC Power @131ºF [55ºC]	3637 kVA	3819 kVA	4001 kVA	4183 kVA
Nominal AC Power @140ºF [60ºC]	1819 kVA	1910 kVA	2001 kVA	2091 kVA
Maximum Output AC Current	3940 A			
Nominal AC Voltage	600 Vrms	630 Vrms	660 Vrms	690 Vrms
Max. Wire Cross Section per AC Output Phase	6 x 400 mm^2			
AC Power Frequency	50 / 60 Hz			
THD of AC Current	< 1%			
Reactive Power Range	Any			
Efficiency				
Max. Efficiency	99.34%			
Euro Efficiency	99.24%			
CEC Efficiency	99.02%	99.07%	99.11%	99.14%
Stand-by Power Consumption	< 200 W			
Protective Devices				
DC Input	Fuse and motorized load disconnector			
AC Input	Motorized air circuit breaker			
Overvoltage Protections AC	Type 1 + 2 SPD			
Overvoltage Protections DC	Type 1 + 2 SPD			
Communications				
Control	Modbus TCP / IP (Profinet, CAN upon request)[1]			
Monitoring	Modbus TCP / IP			
Other Features				
LVRT	Yes			
HVRT	Yes			
Working Ambient Temperature*	-20°C / +60°C (-4ºF / +140ºF). Option -40ºC (-40ºF)			
Relative Humidity	4% - 100% (without condensation)			
Max. Altitude (Whithout Derating)**	2000 m (6561ft)			
Dimensions (Width x Height x Depth)	4325 x 2250 x 1022 mm / 170.3 x 88.5 x 40.2 in			
Weight	4045 Kg (8918 lb)			
Protection	IP55 class 1 / NEMA3R			
Cooling	Liquid & forced air			

Main Standards			
IEC 62109-1	IEC 62920	IEEE519	Rule 21
IEC 62109-2	EN 50530	PO12.2	Rule 14
IEC 61000-6-2	IEC 62116	UL 1741-SA	PRC 024
IEC 61727	IEC 61683	CSA C22.2	NEC 2017
EN 55011	IEC 60529	UL62109-1	

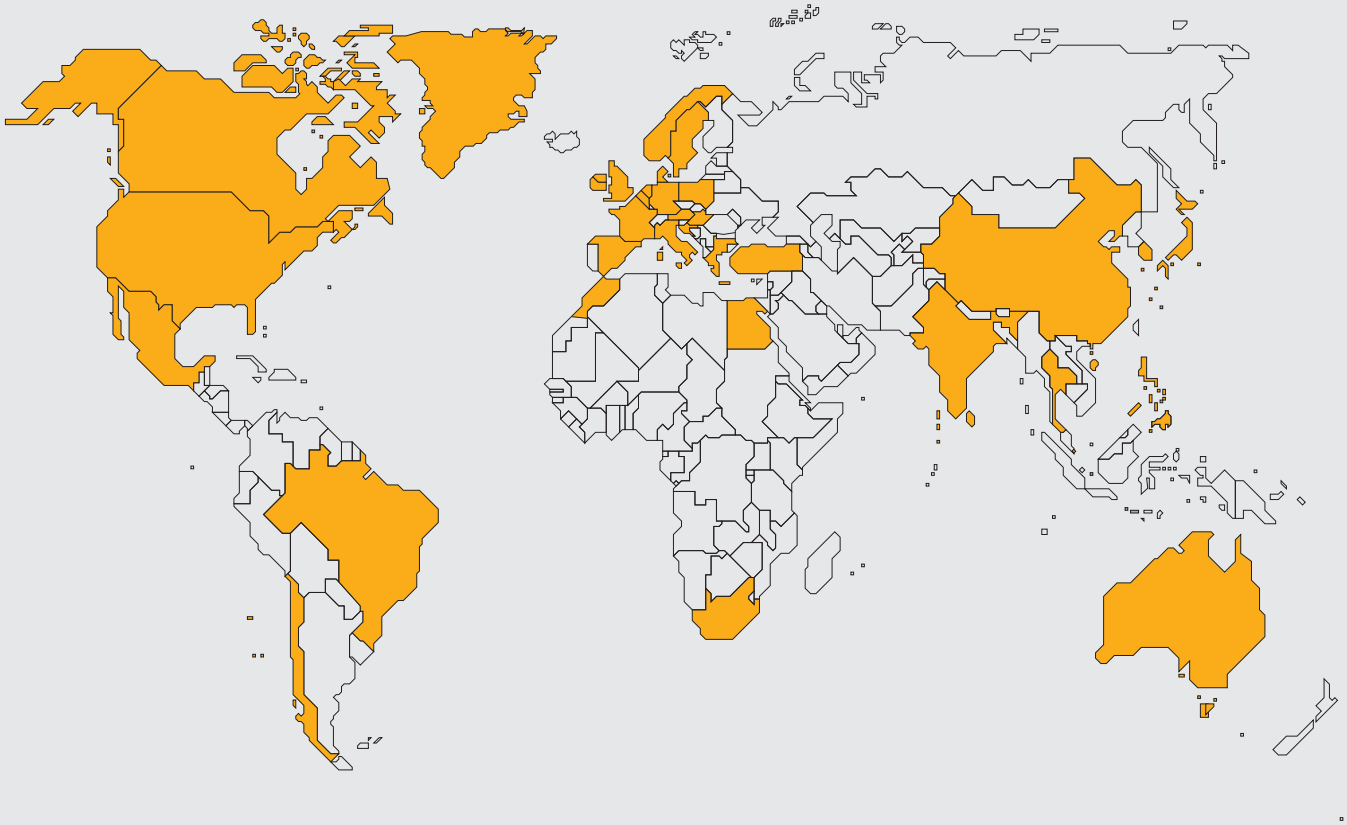
GamesaElectric

GamesaElectric | Shaping new energy

+3.7 GW
SOLAR ENERGY

+112 GW
WIND POWER

+90
COUNTRIES



Worldwide presence

Australia
Austria
Belgium
Brazil
Canada
Chile
China
Croatia
Denmark
Egypt
France
Germany
Greece
Hong Kong
Hungary
India
Ireland
Italy
Japan
Korea
Mexico
Morocco
Netherlands
Norway
Philippines
Poland
Singapore
South Africa
Sri Lanka
Sweden
Thailand
Turkey
UK
USA

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