



# Gamesa Electric PV 3X series PV Inverters

Maximum energy and versatility  
for utility-scale projects

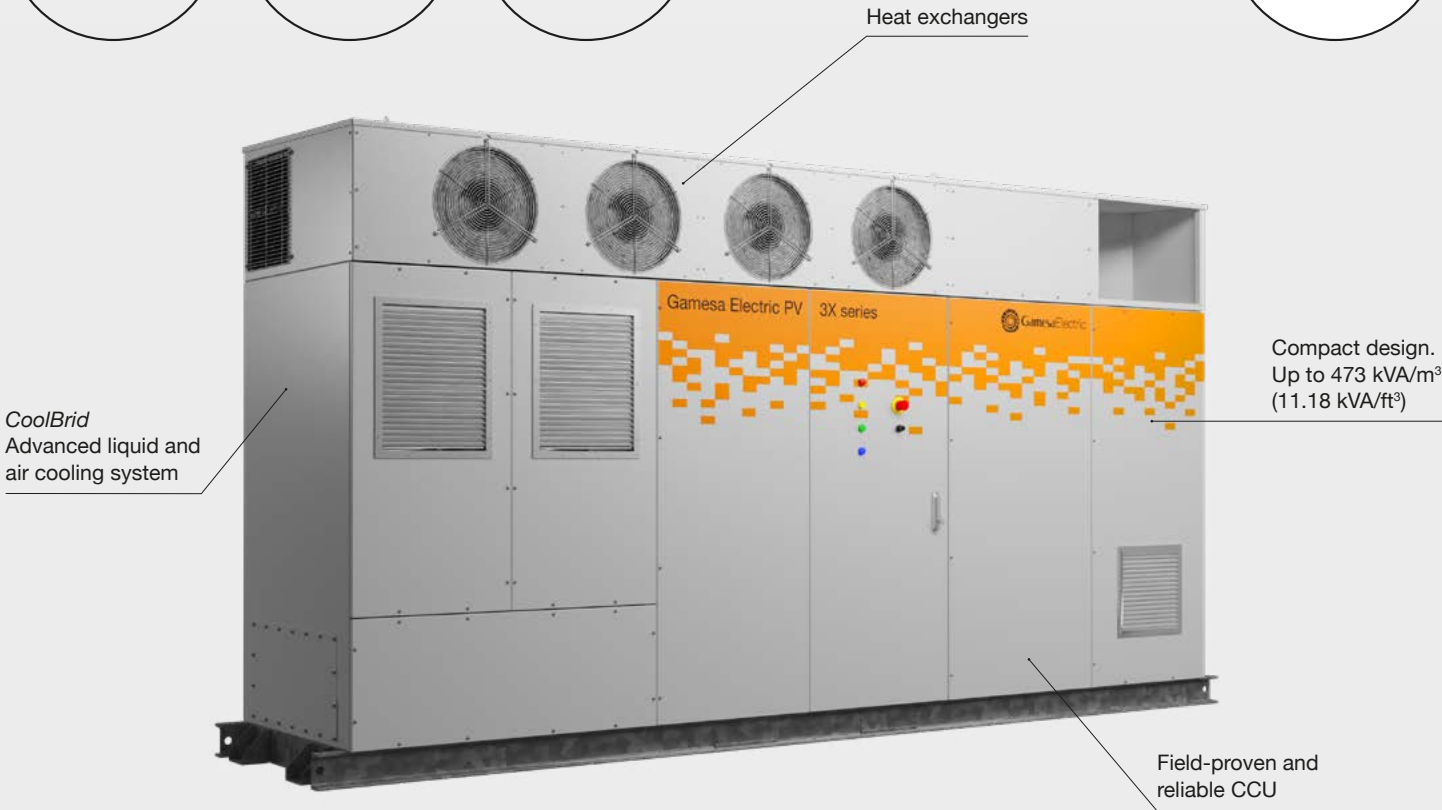


TDHi <1%




MPPT efficiency 99.9%

Outdoor solution

Up to 200% DC/AC ratio



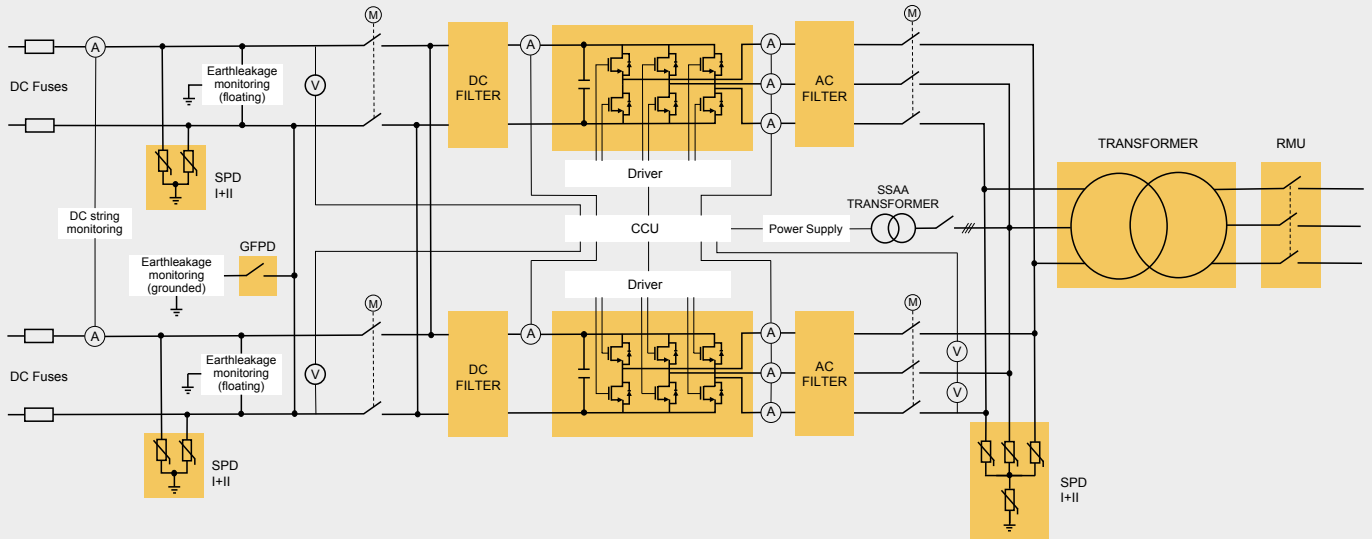
## Gamesa Electric PV 3X series High-power PV Inverter family

 <p><b>Better LCoE</b></p>	<p>Largest single inverter power block in the market with 4,700 KVA</p>	<p>Fewer inverters per project thus lower Capex and Opex</p>	<p>DC/AC ratio of up to 200%</p>
 <p><b>Higher yield</b></p>	<p>Market-leading efficiency with 99.45%</p>	<p>THDi &lt; 1% which reduces losses</p>	<p>Enhanced temperature derating: keeping full power up to 40°C [104°F]</p>
 <p><b>Built to last</b></p>	<p>Designed and manufactured for a 30 year life span</p>	<p>CoolBrid: Smart hybrid cooling system that allows critical components to work far below the temperature limit</p>	<p>Lowest THDi in the market helps to extend power transformers lifespan</p>

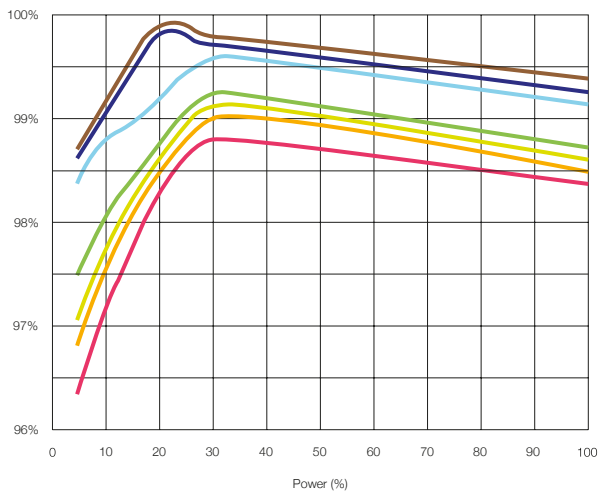


The Gamesa Electric PV 3X series inverters combine high power with maximum versatility for PV plants LCoE reduction.

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



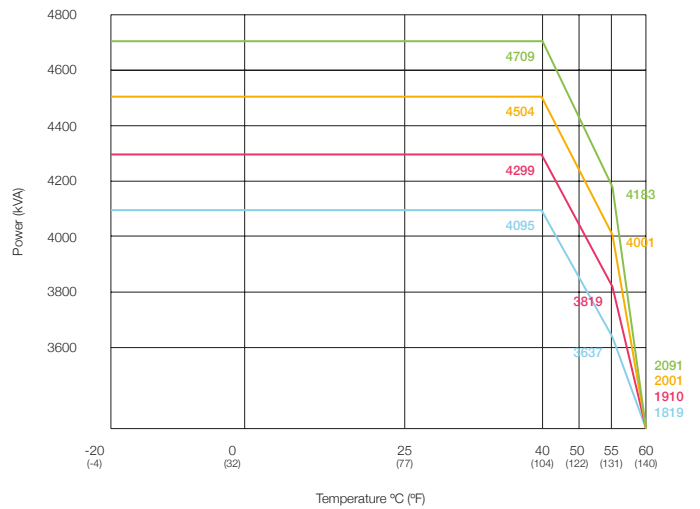
### Efficiency



- 1300 Vdc
- 1110 Vdc
- 935 Vdc
- 1220 Vdc
- 950 Vdc
- 915 Vdc
- 1175 Vdc

### Configurations

Up to 4700 kVA at 1300 V



Temperature °C (°F)

- PV 4700
- PV 4500
- PV 4300
- PV 4100

	PV 4100	PV 4300	PV 4500	PV 4700
<b>DC Connection</b>				
Ratio DC / AC	Up to 200%			
Max. DC Current @40°C [104°F]	2 x 2500 A			
Max. DC Current @50°C [122°F]	2 x 2313 A			
Max. DC Current @55°C [131°F]	2 x 2220 A			
Max. DC Current @60°C [140°F]	2 x 1110 A			
Maximum Short-circuit Current, I <sub>sc</sub> 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 <sup>2</sup> - 800 AWG			
MPPT	1			
Energy Production from	0.5% Pn approx.			

<b>AC Connection</b>				
Nominal AC Power @40°C [104°F]	4095 kVA	4299 kVA	4504 kVA	4709 kVA
Nominal AC Power @50°C [122°F]	3790 kVA	3979 kVA	4169 kVA	4358 kVA
Nominal AC Power @55°C [131°F]	3637 kVA	3819 kVA	4001 kVA	4183 kVA
Nominal AC Power @60°C [140°F]	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 <sup>2</sup>			
AC Power Frequency	50 / 60 Hz			
THD of AC Current	< 1%			
Reactive Power Range	Any			

<b>Efficiency</b>				
Max. Efficiency**	99.45%			
Euro Efficiency	99.24%			
CEC Efficiency	99.02%	99.07%	99.11%	99.14%
Stand-by Power Consumption	< 200 W			

<b>Protective Devices</b>				
DC Connection	Fuse and motorized load disconnecter			
AC Connection	Motorized air circuit breaker			
Overvoltage Protections AC	Type 1 + 2 SPD			
Overvoltage Protections DC	Type 1 + 2 SPD			

<b>Communications</b>				
Control*	Modbus TCP / IP (Profinet, CAN upon request)			
Monitoring*	Modbus TCP / IP			
Websserver	Included			

<b>Other Features</b>				
LVRT*	Yes			
HVRT*	Yes			
Working Ambient Temperature***	-20°C / +60°C (-4°F / +140°F). Option -40°C (-40°F)			
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			

<b>Main Standards*****</b>				
IEC 62109-1	IEC 62116	IEEE519	Rule 21	
IEC 62109-2	IEC 61683	NTS 2.1	Rule 14	
IEC 61000-6-2	IEC 60529	UL 1741-SA	PRC 024	
IEC 61727	EN 50530	UL 62109-1	NEC 2017	
IEC 62920	EN 55011	CSA C22.2		

**Optionals**  
DC Ready. Up to 6 DC-DC converteres per PV inverter

\* Consult Gamesa Electric for a specific configuration  
\*\* Efficiency measured during UL 1741 certification  
\*\*\* With derating from 40°C [104°F]  
\*\*\*\* Up to 4000 m [13123 ft] with derating as optional  
\*\*\*\*\* Consult Gamesa Electric for other Standards / Directives



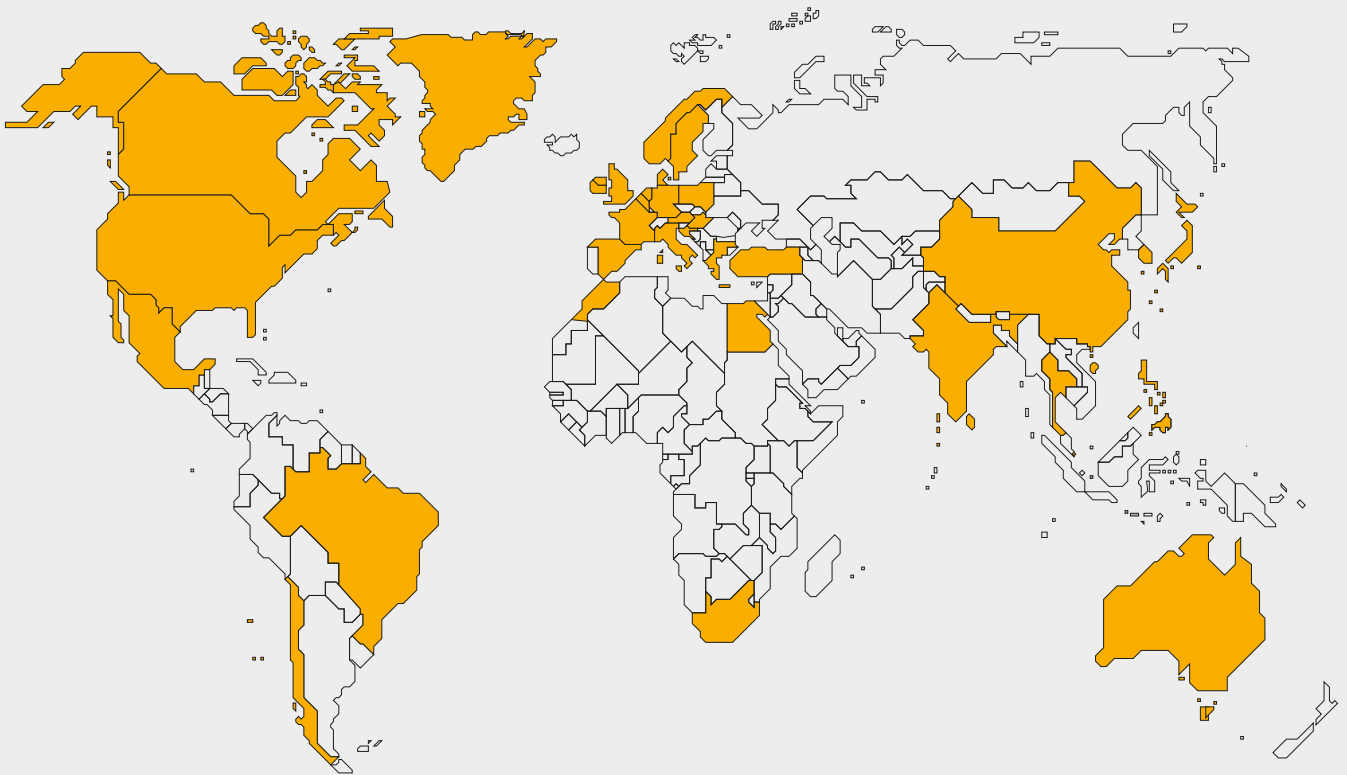
**+3.7 GW**  
SOLAR ENERGY



**+115 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

