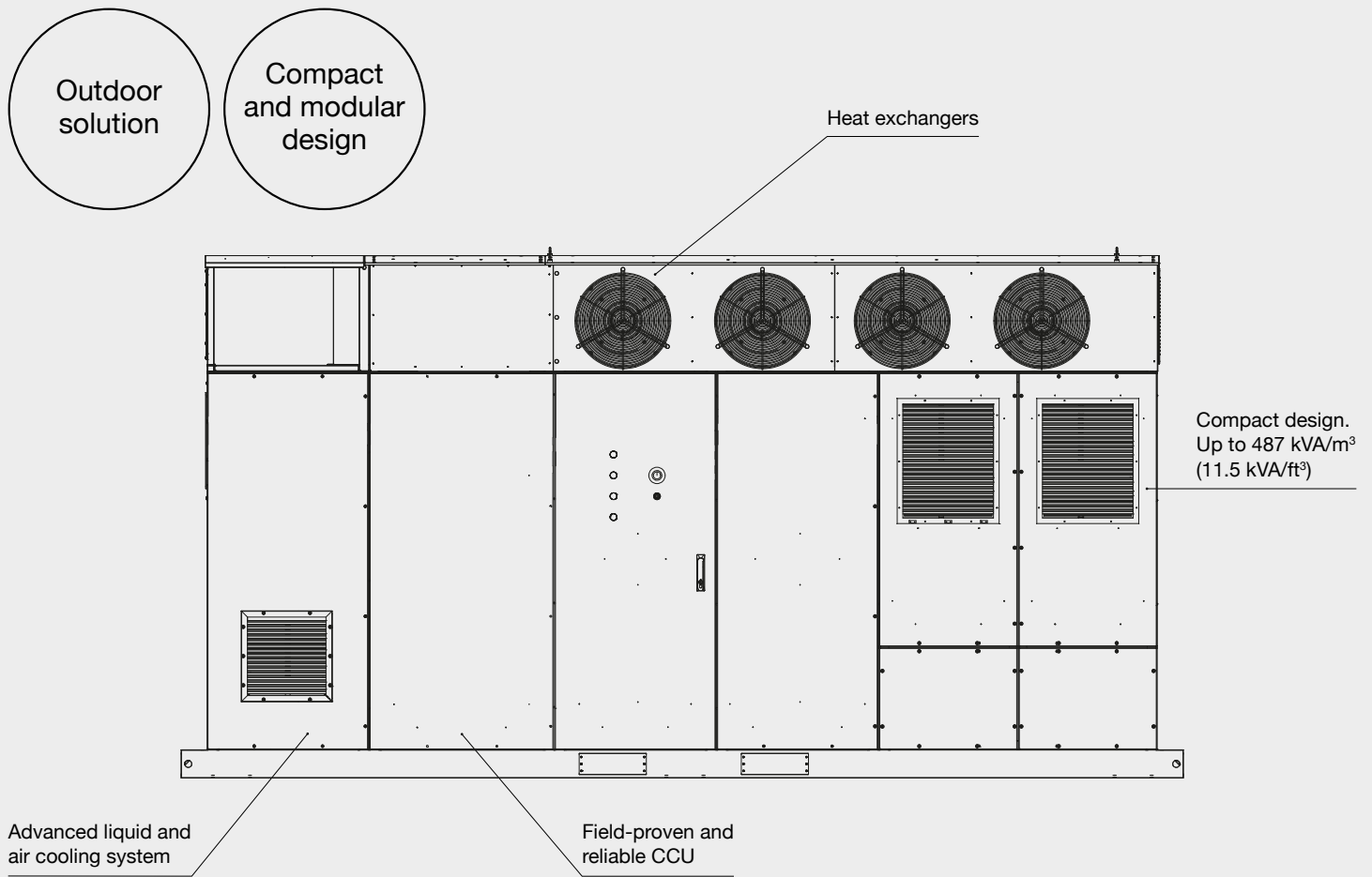






Gamesa Electric PV 3X series PV Inverters

Maximum energy and versatility
for utility-scale projects





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

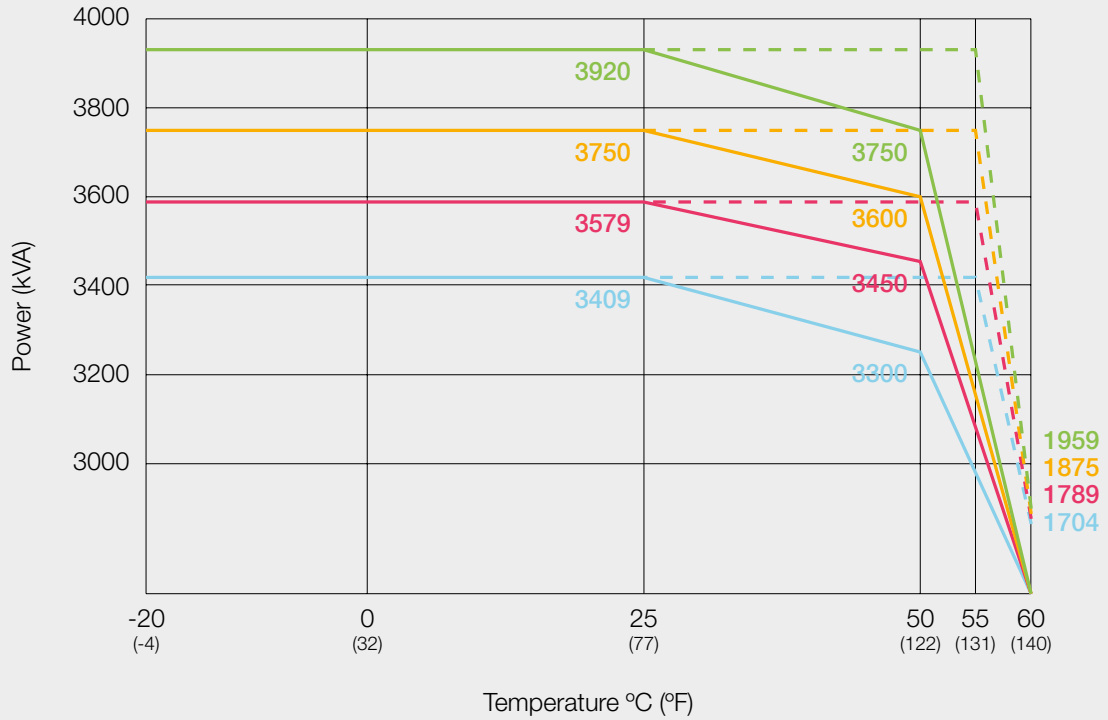
 <p>Better LCoE</p>	<p>Compact design which allows 2-inverter solution of up to 7800 kVA in a standard 40 ft skid, achieving overall cost reduction by using less PV station units per project</p>	<p>Design with best-in-class component that guarantees less probability of failure and therefore less operation cost (materials and workforce)</p>	<p>Market leading inverter efficiency of 99.52%</p>
 <p>Reliability</p>	<p>Smart liquid/air cooling system that allows critical components to work at temperature level far below the limit, guaranteeing product life span</p>	<p>Tier I suppliers for critical components (power semiconductors, capacitors, inductances and control cards) with best-in-class MTBF values</p>	<p>“Easy to support” concept, with heavy components in removable trays, reducing maintenance and repair time (MTTR)</p>
 <p>Grid compliance</p>	<p>An extensive list of grid-codes compliance, including the most demanding ones, such as Germany, Mexico, Jordan, South Africa and more</p>	<p>Full operating range reactive power supply for both day and night operation through the so-called Statcom mode</p>	<p>Non-characteristic harmonics cancellation over distorted and unbalanced grids (weak grids)</p>
 <p>Higher yield</p>	<p>High DC/AC ratio (up to 200%) to be prepared for bifacial modules, achieving higher production values</p>	<p>Enhanced MPPT algorithm that provides outstanding MPPT efficiency values at static and dynamic states</p>	<p>More yield even in challenging sites: operating up to 55°C (up to 3.6% more energy production) and 2000 m (6561 ft) without derating</p>



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

Up to
3900 kVA
at 1500 V

- PV 3900 STD
- PV 3600 STD
- - - PV 3900 HTD
- - - PV 3600 HTD
- PV 3750 STD
- PV 3400 STD
- - - PV 3750 HTD
- - - PV 3400 HTD



Different product configurations available to optimize performance in demanding environments (HTD version), IEC and UL certifications as well as different voltage levels to fit customers' needs.



	PV 3400 ⁽¹⁾	PV 3600 ⁽¹⁾	PV 3750 ⁽¹⁾	PV 3900 ⁽¹⁾
DC Input				
Ratio DC/AC	160% (up to 200% upon request)			
Max. DC Current @25°C [77°F]	2 x 2100 A			
Max. DC Current @50°C [122°F] (STD/HTD)	2 x 1990 A / 2 x 2100 A			
Max. DC Current @55°C [131°F] (STD/HTD)	2 x 995 A / 2 x 2100 A			
Max. DC Current @60°C [140°F] (HTD)	2 x 1050 A			
Maximum Short-circuit Current, I _{sc} PV	6400 A (up to 8000 A upon request)			
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 @25°C [77°F]	3409 kVA	3579 kVA	3750 kVA	3920 kVA
Nominal AC Power @50°C [122°F] (STD/HTD)	3300 kVA / 3409 kVA	3450 kVA / 3579 kVA	3600 kVA / 3750 kVA	3750 kVA / 3920 kVA
Nominal AC Power @55°C [131°F] (STD/HTD)	1650 kVA / 3409 kVA	1725 kVA / 3579 kVA	1800 kVA / 3750 kVA	1875 kVA / 3920 kVA
Nominal AC Power @60°C [140°F] (STD/HTD)	0 kVA / 1704 kVA	0 kVA / 1789 kVA	0 kVA / 1875 kVA	0 kVA / 1959 kVA
Maximum Output AC Current	3280 A			
Nominal AC Voltage	600 Vrms	630 Vrms	660 Vrms	690 Vrms
Max. Wire Cross Section per AC Output Phase	6 x 300 mm ²			
AC Power Frequency	50 / 60 Hz			
THD of AC Current	< 1%			
Reactive Power Range	Any			
Efficiency				
Max. Efficiency	99.52%			
Euro-efficiency	99.31%			
Californian-efficiency	99.34%			
Stand-by Power Consumption	< 200 W			
Protective Devices				
DC Input	Fuse and motorized load disconnecter			
AC Input	Motorized 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)			
Monitoring	Modbus TCP / IP			
Other Features				
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) [IEC / UL]	3508 x 2250 x 1022 mm / 165,7 x 88,5 x 40,2"			
Weight	3500 Kg (9920 lb)			
Protection	IP55 class 1 (IP65 ⁽²⁾ as optional), NEMA3R			
Cooling	Liquid & forced air			
Main Standars				
IEC 62109-1	IEC 62920	IEC 61727	Rule 21	
IEC 62109-2	EN 50530	PO12.2	Rule 14	
IEC 61000-6-2	IEC 62116	UL 1741-SA	PRC 024	
IEC 61000-6-4	IEC 61683	CSA C22.2	NEC 2017	
EN 55011	IEC 60529	UL 62109-1	IEEE 519	

⁽¹⁾ With different configurations: STD (standard version for IEC markets), U (UL certified) variant and HTD (High Temperature & Dust) variant

⁽²⁾ For control electronics

* With derating from 25°C / 77°F in STD version and from 55°C / 131°F in HTD version

** Up to 4000 m (13123 ft) with derating, as optional



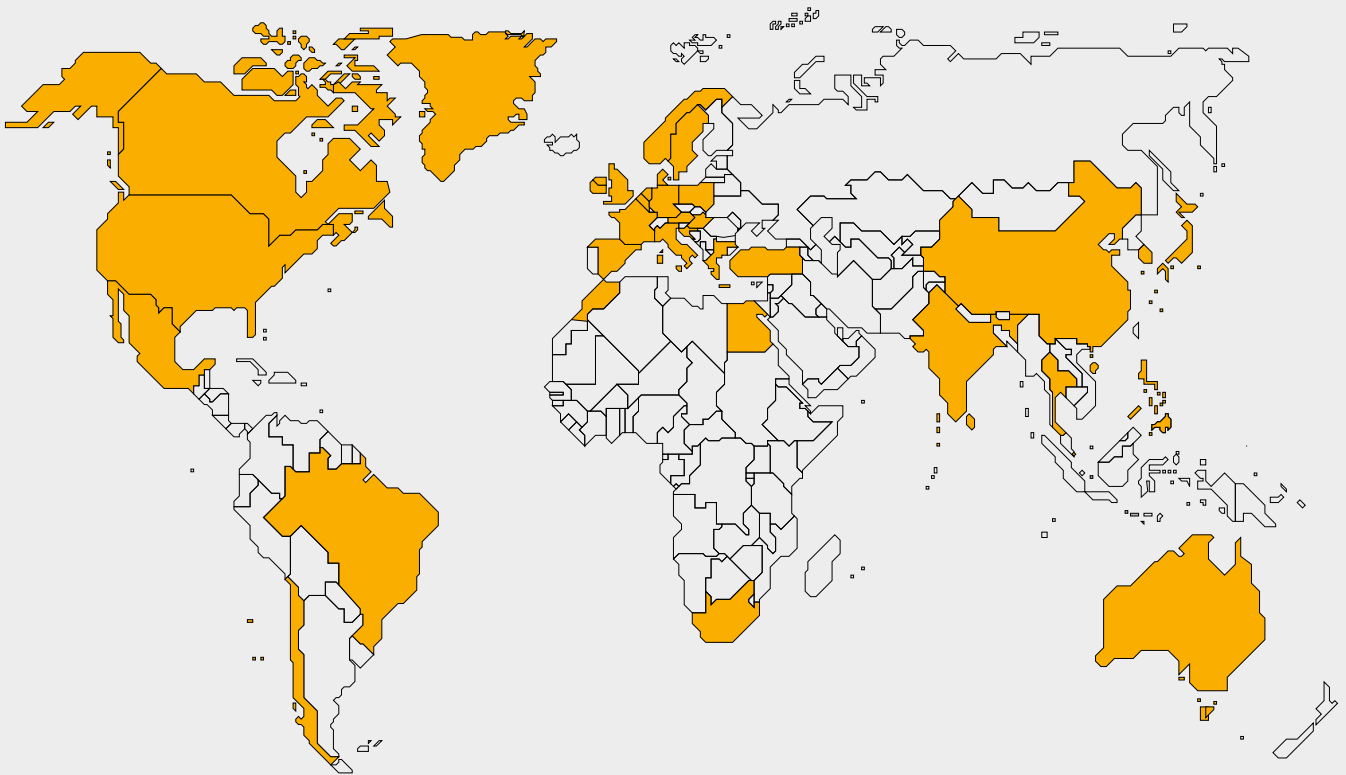
+2.6 GW
SOLAR ENERGY



+100 GW
WIND POWER



+90
COUNTRIES



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Canada

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China
Croatia
Denmark
Egypt

France
Germany
Greece
Hong Kong
Hungary

India
Ireland
Italy
Japan
Korea

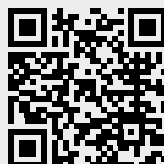
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