GamesaElectric

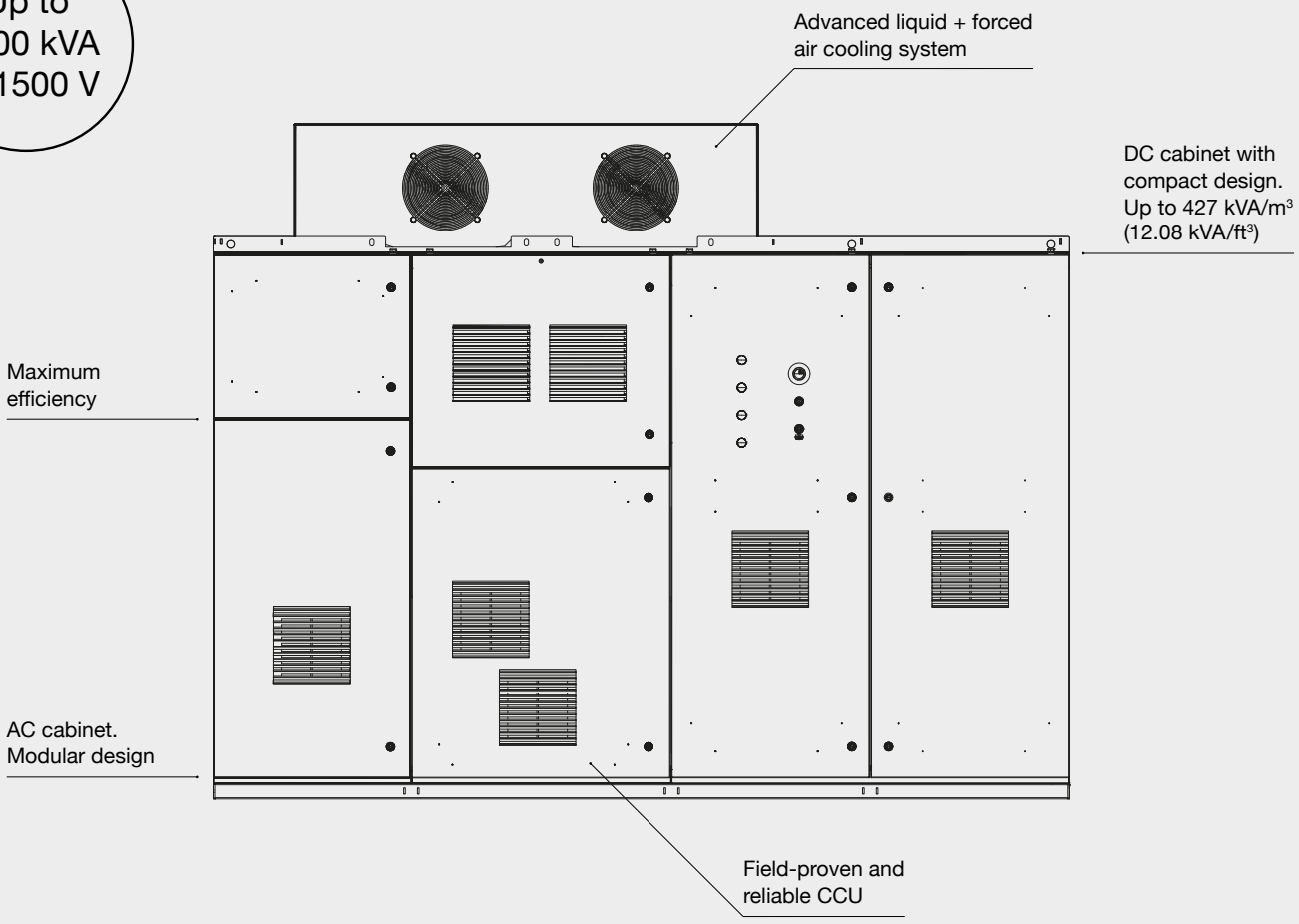
Gamesa Electric PV 2X series

PV Inverters

Efficiency and reliability
with optimum grid compliance

2020 | Datasheet

Up to
2600 kVA
at 1500 V

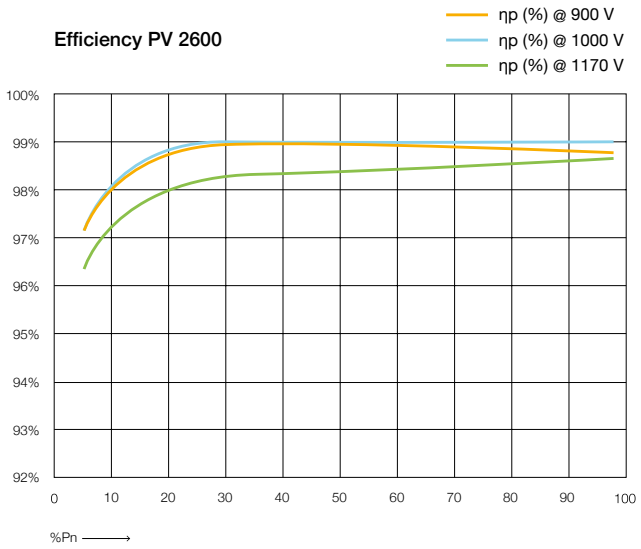


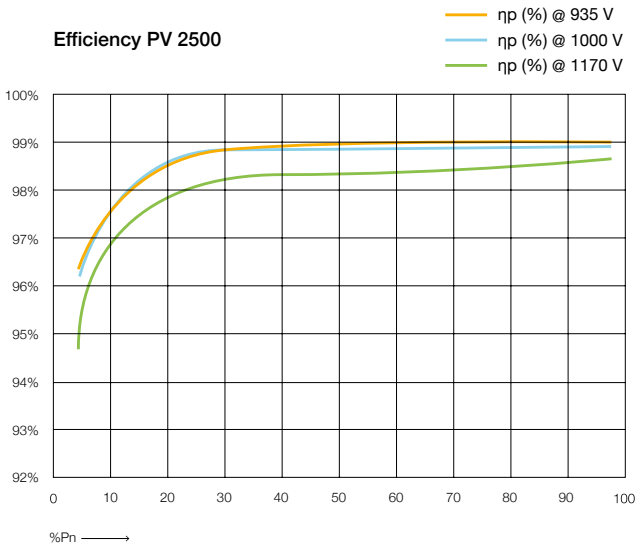
Gamesa Electric PV 2X series
Well-proven indoor PV Inverter family

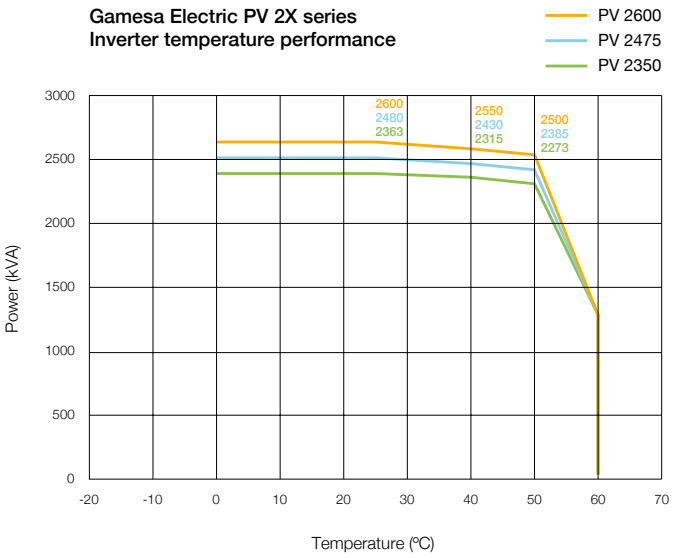
Maximum energy production	Market leading energy efficiency of 99.1% (IEC 61683)	Smart temperature derating that delivers 98% of max. power @40ºC (104ºF) and 96% @50ºC (122ºF)	Enhanced MPPT algorithm to achieve outstanding MPPT efficiency values at static and dynamic states
Reliability	Advanced liquid & air cooling system that allows critical components to work at temperature level far below the limit, ensuring product life span	Tier I suppliers for critical components with best-in-class MTBF values	“Easy to support” concept, with heavy components in removable trays, reducing maintenance and repair time (MTTR)
Grid compliance	An extensive list of grid-code compliances, including the most demanding ones, such as Germany, Mexico, South Africa and more	Full operating range reactive power supply for both day and night operation through the so-called Statcom mode	Non-characteristic harmonics cancellation over distorted and unbalanced grids

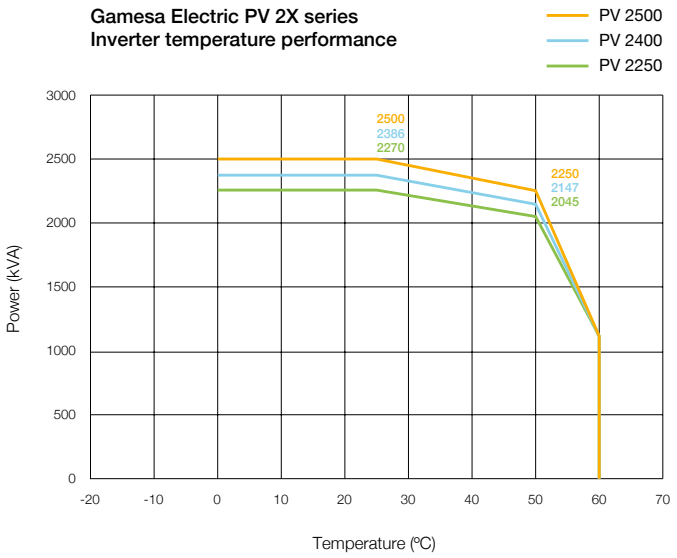
Ready for Bifacial Modules

Available product configuration with high DC/AC ratio (up to 179%) prepared to work with bifacial modules, achieving higher production values.









Market-leading efficiency and smart temperature derating for maximum energy yield

	PV 2350	PV 2475	PV 2600	PV 2250	PV 2400	PV 2500
DC Input						
Ratio DC/AC	127% (up to 177% upon request)[1]			129% (up to 179% upon request)[1]		
Max. DC Current @25ºC [77ºF]	2 x 1468 A			2 x 1460 A		
Max. DC Current @40ºC [104ºF]	2 x 1440 A			2 x 1440 A		
Max. DC Current @50ºC [122ºF]	2 x 1412 A			2 x 1400 A		
Maximum Short-circuit Current, I_{sc} PV	2 x 1800 A (up to 2 x 2500 A upon request)[1]					
DC Voltage range	820 - 1500 V	860 - 1500 V	900 - 1500 V	820 - 1500 V	860 - 1500 V	900 - 1500 V
DC Voltage Range MPPT	820 - 1300 V	860 - 1300 V	900 - 1300 V	820 - 1300 V	860 - 1300 V	900 - 1300 V
Nr of DC ports	max 16 fuse +/- max 18 fuse + (up to max 24 fuse +/- monitored upon request)[1]					
Fuse Dimensions	160 A to 500 A					
Max. Wire Cross Section per DC input	1 x 500 mm^2 or 2 x 300 mm^2					
MPPT	1					
Energy Production from	0.5% Pn approx.					
AC Output						
Nominal AC Power @25ºC [77ºF]	2363 kVA	2480 kVA	2600 kVA	2270 kVA	2386 kVA	2500 kVA
Nominal AC Power @40ºC [104ºF]	2315 kVA	2430 kVA	2550 kVA	2136 kVA	2240 kVA	2350 kVA
Nominal AC Power @50ºC [122ºF]	2273 kVA	2385 kVA	2500 kVA	2045 kVA	2147 kVA	2250 kVA
Maximum Output AC Current	2273 A			2185 A		
Nominal AC Voltage	600 Vrms	630 Vrms	660 Vrms	600 Vrms	630 Vrms	660 Vrms
Max. Wire Cross Section per AC Output Phase	4 x 240 mm^2 (optional 5 x 240 mm^2)					
AC Power Frequency	50 / 60 Hz					
THD of AC Current	< 3%					
Reactive Power Range	Any					
Efficiency						
Max. Efficiency	99.1%			99.1%		
Euro-efficiency	98.8%					
Stand-by power consumption	< 200 W					
Protective Devices						
DC input	Fuse and motorized load switch					
AC input	Motorized circuit breaker					
Overvoltage Protections AC	Type 1 + 2 SPD					
Overvoltage Protections DC	Type 1 + 2 SPD					
Communications						
Control	Modbus TCP / IP (Other upon request)					
Monitoring	Modbus TCP / IP					
Other Features						
LVRT	Yes					
HVRT	Yes					
Working Ambient Temperature*	-20°C / +60°C (-4ºF / +140ºF)					
Relative Humidity	95% (without condensation)					
Max. Altitude (whitout derating)**	2000 m (6561 ft)					
Dimensions (width x height x depth)	2800 x 2230 x 975 mm (110.2 x 87.8 x 38.4")					
Weight	2400 kg (5290 lb)					
Protection	IP20					
Cooling	Liquid & forced air					

Main Standars		
IEC 62109-1	IEC 61683	C22.2 No 107.1-01:2001
IEC 62109-2	IEEE 519	AUS: AS 4777.2: 2015
IEC 61000-6-2	IEEE 1547	INDIA: CEA 6th February, 2019
EN 55011:2016	USA: UL 1741-SA	IEC TS 62910:2015
IEC 62116	UL62109	

Optional
Advanced grounding kit
Touch Display (HMI – Human Machine Interface)
Current Monitoring of DC Inputs

[1] This feature is available in product configuration with DC cabinet upgrade
* With derating from 25°C / 77ºF
** Up to 4000 m (13123 ft) with derating as optional

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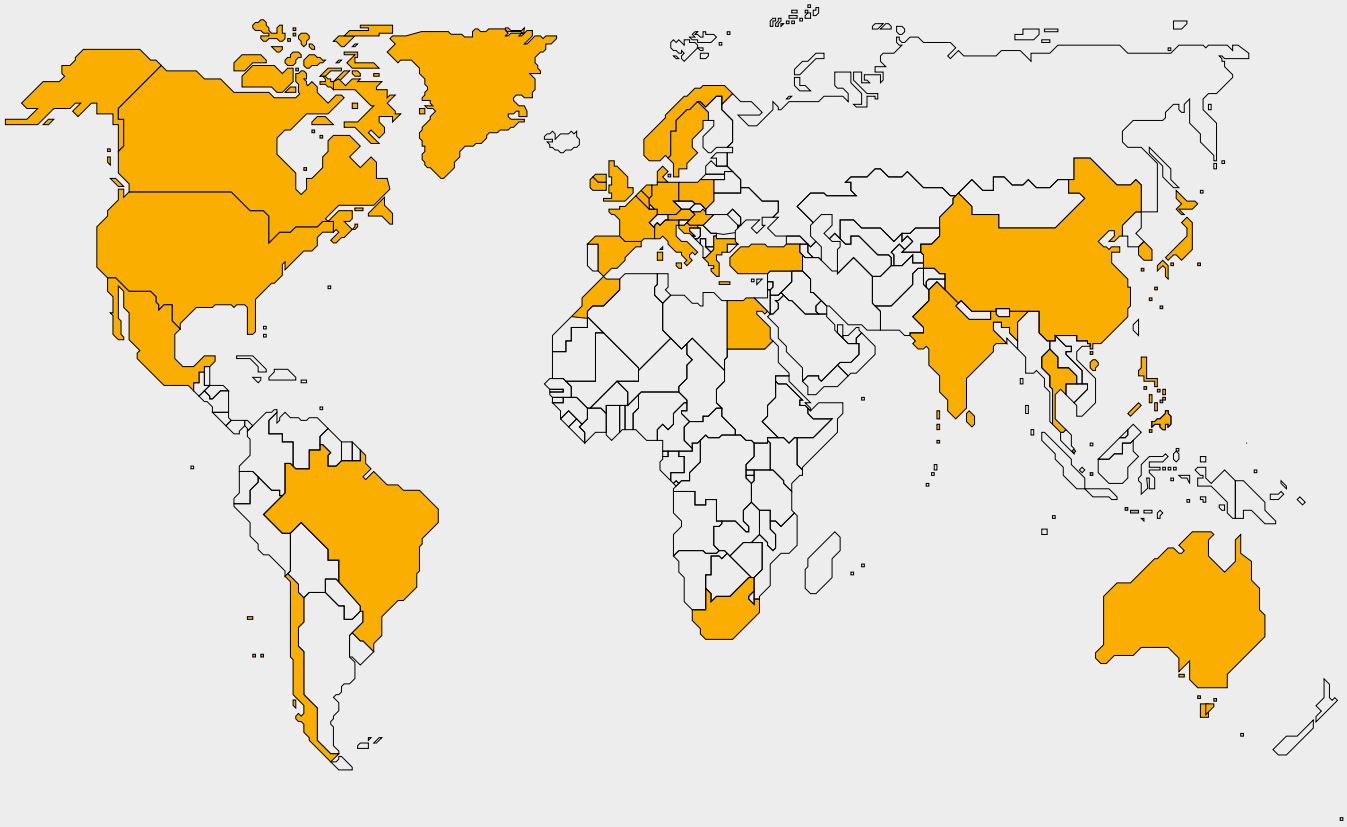
GamesaElectric | Shaping new energy

+2.6 GW
SOLAR ENERGY

+100 GW
WIND POWER

+90
COUNTRIES



Worldwide presence

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Netherlands
Norway
Philippines
Poland
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South Africa
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Thailand
Turkey
UK
USA

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