



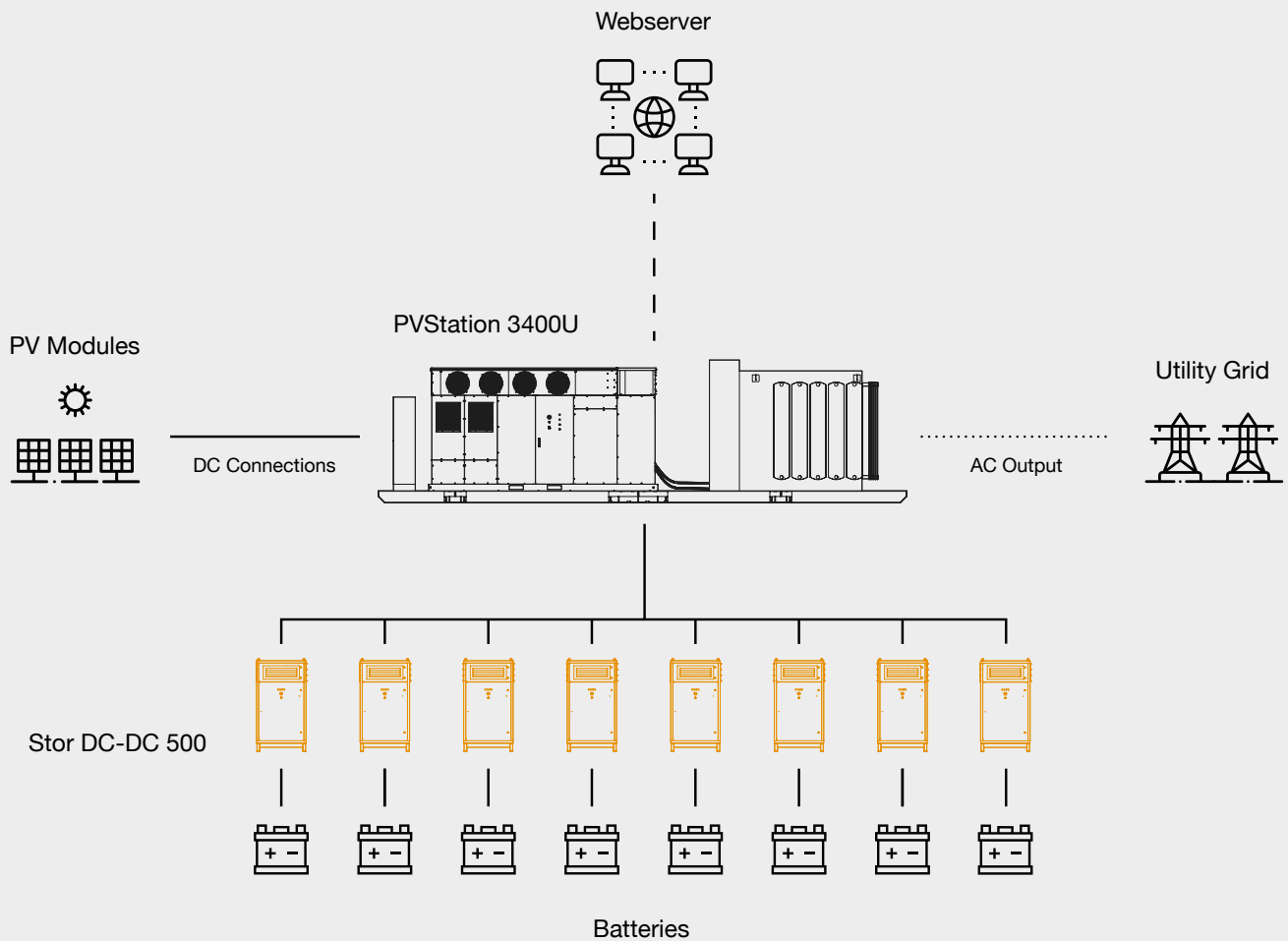
Gamesa Electric

Stor DC-DC 500




DC-to-DC converter
for utility-scale solar + storage



Designed and
certified for
USA market



Gamesa Electric Stor DC-DC 500 DC-DC Converter

 <p>Higher revenues</p>	<p>Allows to shift otherwise clipped PV energy, increasing overall PV plant revenues</p>	<p>CAPEX optimization, by using existing PV Plant hardware (PV inverter / station)</p>	<p>Eligibility for Investments Tax Credits (ITCs) applicable in USA</p>
 <p>Maximum performance</p>	<p>Extended DC Voltage range at battery and inverter level</p>	<p>Enhanced P-V curve, achieving optimum conversion at whole operation range</p>	<p>Maximum efficiency at every working point (even at low load)</p>
 <p>Flexibility</p>	<p>Fully compatible with different PV panels, battery technologies and manufacturers</p>	<p>Modular design, scalable with up to 8 units in parallel</p>	<p>Designed to be easily integrated with Gamesa Electric PV 3400U inverter and Gamesa Electric PV Station 3400U</p>

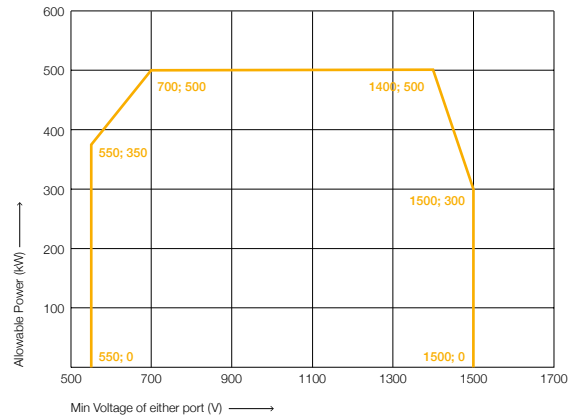
DC/DC 500 KW	
Electrical Specifications	
DC Voltage Range (Battery Port)	550-1500 V _{dc}
DC Voltage Range (PV Port)	550-1500 V _{dc}
DC Voltage Range (Battery Port)	700-1400 V _{dc} at full power
DC Voltage Range (PV Port)	700-1400 V _{dc} at full power
Rated Continuous Power Rating	500 kW
Rated Continuous Current Rating	715 A _{dc}
Max DC Input Voltage without Load	Defining in P-V curve
Number of DC Ports	4
Max. Efficiency	98.5%*
Battery Technology	Compatible with all battery technologies

Protective Devices	
PV Port	Fuse and load switch
Battery Port	Fuse and load switch
Overvoltage Protection PV DC	Type 1 + 2 SPD
Overvoltage Protection PV DC	Type 1 + 2 SPD
Ground Fault Detection	Insulation monitoring device
DC Disconnection % Protection (PV)	Built-in
DC Disconnection % Protection (Batt)	Built-in
Battery Overvoltage Protection	Built-in

Other Features	
Permissible Ambient Temperature	-4°F/+122°F without derating
Max. Relative Humidity	95% non-condensing
Max. Altitude	6562 ft without derating
Dimensions (W/H/D)	47.2 x 78.7 x 55.1 in (1200 x 2000 x 1400 mm)
Acoustic Rating	<80dBA at 1 m*
Weight	<2000 lbs.
Protection	Outdoor Nema 3R
Cooling	Forced air cooling

Communications	
Monitoring	Modbus TCP/IP

Main Standards	
UL 1741	
CSA C22.2#107.1	
FCC Part 15 Class A (TBC)	
EN 61000-6-2 (TBC)	
EN 61000-6-4 (TBC)	
CE	



STOR DC/DC 500 kW Power Curve. Mk I @50°C

* Preliminary value



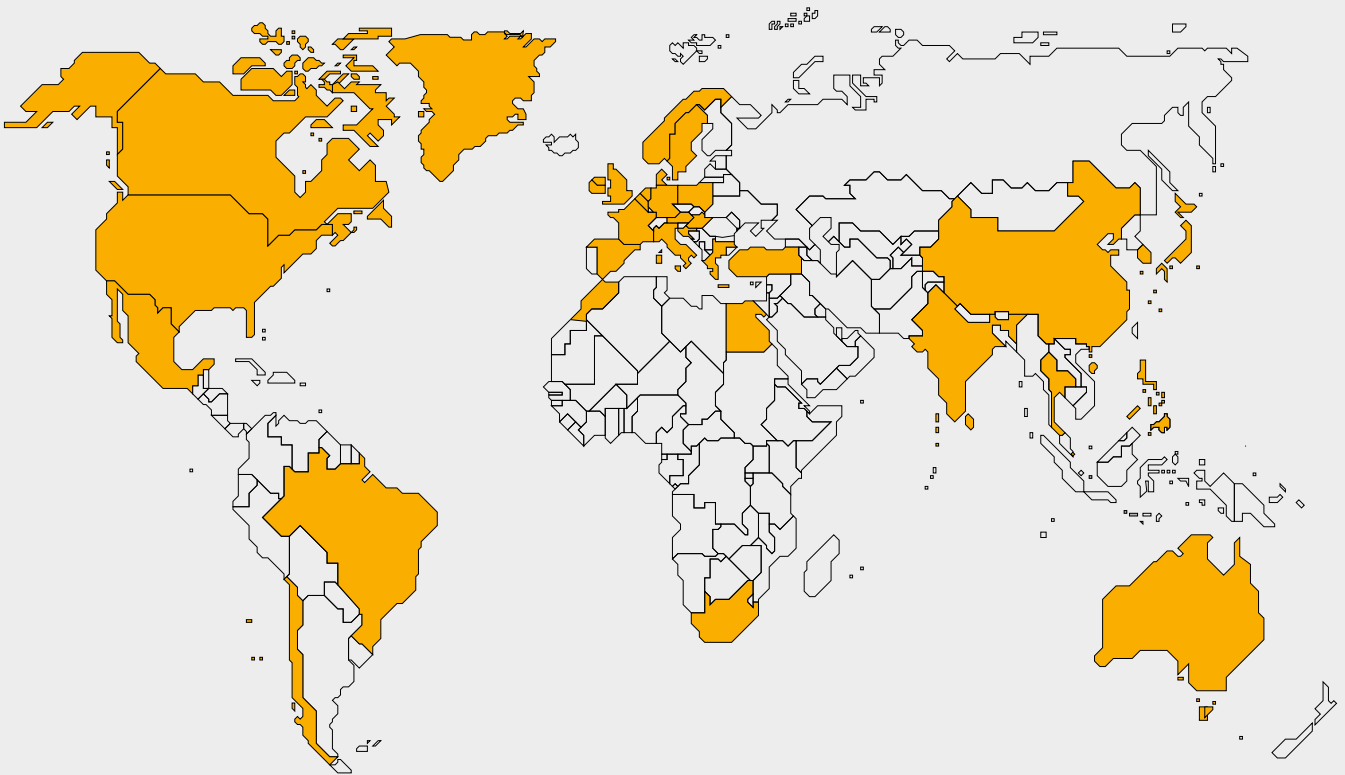
+2400
PV INVERTERS



+90 GW
Wind & Solar
INSTALLED



+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

