

DC 1500V Containerized String Inverter for PV Power Plant

RV-GSM3125C



Max. PV Voltage up to 1500V
DC/AC Ratio up to 1.5



AGC/AVC Night SVG Function LVRT/
HVRT/FRT Function



Full Power Output Under 50°C
IP54 Outdoor Protection



Modular Design for Easy Maintenance
Max. 28 DC Inputs

RV-GSM3125C

Model:	RV-GSM3125C
PV Input	
Max. Input Voltage	1500 V
MPPT Operating Voltage Range	920 V ~ 1300 V
Start-up Voltage	980 V
Max. Operating Input Current	4080 A
No.of MPP Trackers	2
No.of Strings per MPP Tracker	1
AC Output	
Rated Output Power	3125 kW@ 50°C
Max. Output Power	3600 kW@ 50°C
Rated AC Voltage	630V, 3L+1N+PE
AC Voltage Range	504 V ~ 693V
AC Grid Frequency / Range	40 ~ 55 / 55 ~ 65 (adjustable)
Rated Output Current	2864 A
Max. Output Current	3299 A
Adjustable Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)
Grid Connection	3-Phase
Max. Total Harmonic Distortion (THDi)	≤ 3 %
Efficiency	
Max. Efficiency	99.00%
Protection	
European Efficiency	98.70%
Anti-islanding Protection	Yes
DC Reverse Polarity Protection	Yes
AC Short-circuit Protection	Yes
DC Surge Protection	Yes, compatible with TYPE II protection class according to EN/IEC 62109-1
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DC Input Protection	Circuit Breaker
AC Output Protection	Circuit Breaker
Overheat Protection	Yes
AC Short-circuit Protection	Yes
Current Leakage Monitoring	Yes
Insulation Detection	Yes
Anti-PID Function	Optional
General Data	
Dimensions (W x H x D)	2991 x 2591 x 2438 mm
Weight	5000 kg
Operating Temperature Range	-40 ~ + 60 °C
Topology	Transformerless
Cooling	Forced Air Cooling
Ingress Protection	IP54
Relative Humidity	0~100%(No Condensation)
Max. Operating Altitude	4,000 m (13,123 ft.) (Derating above 2000 m)
Mounting	Floor
Display	Touch Screen Display
Self-consumption (at night)	<100 W
Communication Interface	Modbus RS485