

MV Central Inverter

Outdoor / 1500 Vdc / 2500–3125 kW



Max. PV Voltage up to 1500 V
DC / AC Ratio up to 1.8



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



Full Power Output under 55°C
IP55 for Outdoor Use



Modular Design for Easy Maintenance
Max. 18 DC Inputs



MODEL	GSM2500D		GSM3125D
Input (DC)			
Max. DC Input Voltage	1500 Vdc		
Min./Start Voltage	860 ~ 940 V (adjustable)		
MPPT Voltage Range	875 ~ 1300 V		
No. of MPPT	2		
No. of DC Input	Max. 18		
Max. DC Input Current ¹⁾	3207 A	4009 A	
Output (AC)			
Rated AC Output Power	2500 kW	3125 kW	
Max. AC Output Apparent Power	2750 kVA	3437 kVA	
Rated AC Voltage	600 Vac, 3W+PE		
AC Voltage Range	510 Vac ~ 660 Vac		
Rated Grid Frequency	50 / 60 Hz		
AC Grid Frequency Range	45 ~ 55 Hz / 55 ~ 65 Hz (adjustable)		
Rated Output Current	2406 A	3007 A	
Max. Output Current	2646 A	3308 A	
Power Factor (cosΦ)	0.8 leading - 0.8 lagging		
THDi	< 3% (at nominal power)		
Efficiency			
Max. Efficiency	99.00%		
Euro Efficiency	98.70%		
Protection			
DC Input Protection	Load Break Switch + Fuse		
AC Output Protection	Circuit Breaker		
Surge Protection	DC Type I+II; AC Type II		
Anti-islanding Protection	Yes		
Insulation Monitoring	Yes		
Leakage Current Monitoring	Yes		
Overheat Protection	Yes		
DC Reverse Polarity Protection	Yes		
AC Short-circuit Protection	Yes		
Anti-PID Function	Optional		
General Specifications			
Dimensions (W x H x D)	2725 x 2350 x 1602 mm		
Weight	3.5 t		
IP Class	IP55		
Topology	Transformerless		
Operating Ambient Temperature Range	-40 ~+ 60°C (> 50°C derating)		
Operating Relative Humidity Range	0 ~ 100%		
Max. Operating Altitude	4000 m (> 3000 m derating)		
Cooling Method	Forced Air Cooling		
Power Consumption at Night	< 250 W		
Communication	Modbus RS-485		
Display	Touch Screen		

1) Limited by software under DC input voltage of 875V.