KSTAR
Powering the Future



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℃
  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℃ (> 50℃ 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 875 V.