

HYBRID INVERTERGEM SERIES



WE MAKE THINGS WORK THE WAY YOU WISH THEY WOULD.

- Continuous operation during grid blackouts (Built in emergency power supply)
- Water and dust proof design (IP65 rated)
- Extremely low noise (no fan)
- Exceptional inverter efficiency of 99.5% (Euro-ETA)
- Remote monitoring (WI-FI / hard-wired)
- Off-site remote control of inverter via SCADA technology
- Wide voltage range
- Flexible export restriction mode
- Full demand response mode (DRM-Compliant)
- 5 year warranty / optional 7 year or 10 year warranty upgrade available













Interfaces: Warranty

Certificates and approvals

HYBRID INVERTERGEM SERIES

SPECIFICATIONS	GEM 5000
Input Data (DC)	
Max. DC power	5400W
Max. DC voltage	600V
Start voltage	100V
DC nominal voltage	
And the state of t	360V
PV voltage range	100V-600V
MPP voltage range	120V-550V
Max. input current per string of tracker A/tracker B	11A/11A
Number of independent MPP inputs	2
Output Data (AC)	
Nominal AC output power	5000W
Max. AC apparent power	5000VA
Max. output current	22.8A
AC nominal voltage; range	220V/230V/240V; 180V-280V
AC grid frequency; range	50,60Hz;±5 Hz
Power factor at rate power	1
Power factor	0.8leading0.8lagging
THDI	<3%
AC connection	Single phase
Battery	end or the control of
Battery type	LiFeP04
Norminal voltage	51.2V
5	>=100Ah(depending requirement)
Battery capacity	5.0 kWh
Energy	
Max, discharging /charging power	2500W / 2500W
Charging curve	3-stage adaptive with maintenance
Operating voltage range	46V-57V
Max. charging/discharging current	50A / 50A
Backup Output	
Output rate power	2300VA
Peak power	3450VA,10s
Output voltage	230V±2%, 50Hz (60Hz Optional)±0.2%, THDv<3%(linear load)
Efficiency	97.10%
Max. efficiency	96.50%
Euro - eta	99.50%
MPPT efficiency	
Protection Devices	
DC reverse polarity protection	Yes
DC switch rating for each MPPT	Yes
Output over current protection	Yes
Output over current protection Output overvoltage protection-varistor	Yes
Ground fault monitoring	Yes
Grid monitoring	Yes
Integrated all - pole sensitive leakage current	Yes
monitoring unit	
General Data	
Dimensions (W / H / D)	495/420/165mm
Weight	24kg
Operating temperature range	-25+60°C (-13+ 140°F) With derating above 45°C (113°F)
Noise emission (typical)	≤ 25 dB(A)
Altitude	Up to 2000m (6560ft) Without power derating
Relative humidity	95%
Consumption: operating (standby) / night	<5W/<0.5W
Topology	Transformerless
Cooling concept	Natural
Environmental Protection Rating	IP65
	100
Features	HA/MCA
DC connection	H4/MC4
AC connection	Screw terminal
Display	LED

WFI/USB

5 years (with 7 or 10 year upgrade available)

CE,IEC 62109-1&2, VDE 0126-1-1,G59, AS4777&AS/NZS 3100