









SIMULIFE Electric

GAN Hybrid series product specifications

* Disclaimer: All pictures shown are for illustrative purposes only. Actual product may vary due to product enhancements.

Particulars / Product	GAN 2000
Solar panel string specifications	
	
Nominal Solar power (Wp)	< 2100
Max. Solar string input voltage (VOC)	< 160
MPPT operating range (V)	97 – 140
Maximum short circuit (A)	20
Rated MPPT voltage (V)	121
Maximum input current (A)	< 16
Number of inputs	1
MPPT channel	1
Grid tie specifications	
	
Max. output power (W)	2000*
Rated output power (W)	2000
Voltage range (V)	185 – 265
Max. current (A)	10.2
Rated voltage (V)	230
Rated current (A)	9.1
Frequency range (Hz)	47 – 53
Power factor	UPF
Current harmonic distortion (THDi)	< 3%
Max. Inverter efficiency	98.60%

Particulars / Product	GAN 2000
Max. Efficiency with isolation transformer	94.00%
Minimum power pumped to grid (W)	80
Galvanic isolation	Available
Features on Grid mode	Grid: OV, UV and surge protection. DC: OV, UV and surge protection. Frequency: higher & lower cut off. Anti-islanding protection. Polarized PV connectors
Inverter mode specifications 	
Max. output active power (W)	2000
Max. output apparent power (VA)	2000
Output voltage nominal V	230 (+/-5%)
Output frequency (Hz)	50
Max. Inverter efficiency	96.40%
Inverter efficiency with isolation	89.90%
Output connections	1 Φ , (Phase-Neutral-Earth)
Features on inverter mode	Overvoltage, over current and over load protection. Isolated inverter with inbuilt surge protection. Extended run time during day time (solar + battery)

Particulars / Product	GAN 2000
Battery specifications 	
Nominal battery voltage (V)	96 (12V battery, 8 numbers)
Capacity AH	42
Charger power W	430
Boost charging voltage V	114.2
Float charging voltage V	108
Charging current A	4
Battery charging time	> 10 hours
Charger voltage range V	195 - 265 (Grid mode and grid idle mode)
Charging levels	High Boost, Low boost and Float (3 level charging)
Charger features	Wide input voltage charger, Boost and Float mode, battery reverse protection, Front end UPFC
Communications and management 	
Audible alarm	For all manual intervention faults
LCD display	Refer the LCD section of the manual
Communication	RS485, MODBUS
Physical (Inverter) 	
Maximum Height (mm)	200
Maximum Width (mm)	540
Maximum Depth (mm)	470
Net Weight (kg)	5(approx.)

Particulars / Product	GAN 2000
Physical (Transformer)	
Maximum Height (mm)	300
Maximum Width (mm)	380
Maximum Depth (mm)	360
Net Weight (kg)	20(approx..)

Environmental Specification



Environmental category	Indoor - IP 21
Pollution degree	PD3
Protection degree	Class 2
Relative Humidity %	30-95
Operating Temperature °C	0-50
Overvoltage category	Category III
Safety class	Class I metal enclosure with protective earth
Maximum Altitude	2000 m
Additional features	Dual DSP system for safety, Low frequency based system (can take surge loads)
Input sources	Grid, battery, solar

IEC certifications



Sl. no	Feature
i	IEC 61727 -Ed2-2004-12
ii	IEC 61683

Particulars / Product	GAN 2000
iii	IEC 60068-2-2-1, 2, 14, 30
iv	IEEE 1547
v	IEC 60529
vi	IEC 61000-6-1: 2007
vii	IEC61000-6-3: 2007
viii	IEC62109-1, 2
ix	IEC 60068-2-2-1, 2, 14, 30
x	IEC 61000-4-2
xi	IEC 61000-4-3
xii	IEC 61000-4-4
xiii	IEC 61000-4-5
xiv	IEC 61000-4-6
xiii	IEC 61000-4-8
xiv	EN50530