

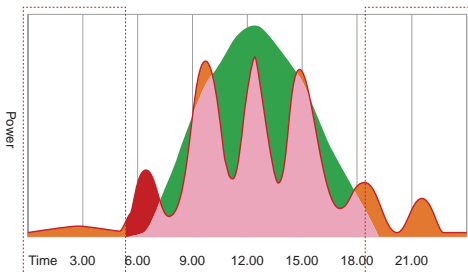
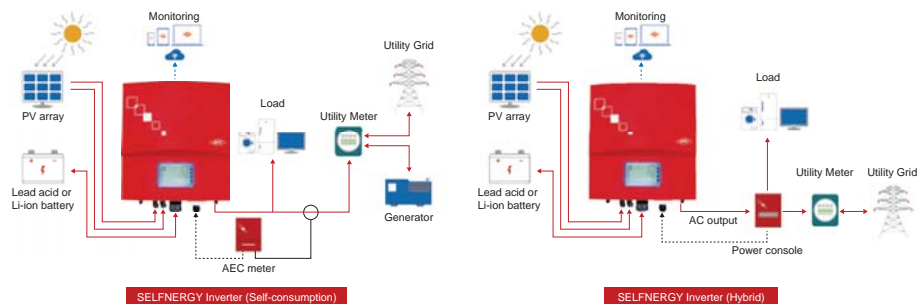
SELFENERGY SERIES

Single phase Self-Consumption Management

3.3 kW - 5kW

Features :

- Self consumption application of solar power energy storage system
- User-friendly-interface to monitor energy flow easily
- Intelligent load management with smart meter and split-core CT
- Special external capacitor modular design extends life span
- IP65 fan-less nature cooling design
- Work up to 50°C without derating
- High battery discharge power (5.3kW), charge/ discharge efficiency > 95%
- Applicable to connect with Genset to maximize fuel efficiency and reduce fuel cost



- Day - PV generate energy
 - Load consume energy from PV
 - Extra energy charge to battery (energy stored)
- Night - PV not generate energy
 - Load consume energy from battery
 - if battery energy not enough, load consume energy from grid

Specification :

Model	Selfnergy-3300	Selfnergy-5000
Output Data (AC)		
Maximum AC Output	3,300W	5,000W*
Maximum AC Output Current	16.5 a.c.A	24.5 a.c.A
Nominal AC Voltage	220 a.c.V-240 a.c.V	
Grid AC Frequency	50/60Hz, auto-selection	
Power Factor	> 0.99 @ 20% load	
Reactive Power Factor	1 or adjustable from -0.9 to +0.9**	
Total Harmonic Distortion	< 3%	
AC connection / Grid forms	Single-Phase / TN-C, TN-S, TN-C-S	
Input Data (DC)		
Maximum DC Power	3,600W	5,300W
Maximum DC Input Current	18 d.c.A	26.5 d.c.A
Max. number of MPP Trackers	1	
Maximum DC Voltage	650 d.c.V	
MPP Tracking Voltage Range	150 d.c.V - 500 d.c.V	
Peak Power Tracking Voltage Range	200 d.c.V - 460 d.c.V	
Input Data (Battery)		
Maximum Discharging Power	3,600W	5,300W
Maximum Discharging Current	18 d.c.A	24.5 d.c.A
Maximum Charging Current	20 d.c.A	
Maximum Battery Voltage	400 d.c.V	
Configurable Battery Voltage Range	198 d.c.V - 400 d.c.V	
Charge Control	Constant Current (CC), Constant Voltage (CV)	
Efficiency		
MPPT Efficiency	>99.9%	
Maximum Efficiency	96.5%	96.9%
Euro. Efficiency	96.1%	96.6%
Consumption: Standby / Night	<12.5W / <0.5W	
General Specification		
Dimensions (W x H x D) in mm	405 x 442 x 165	
Weight	25.8kg	
Cooling Concept	Natural Cooling	
Acoustic Noise Level	< 35dB(A)	
Maximum Operating Temperature Range without derating	-20 °C to +55 °C	-20 °C to +50 °C
Ambient Temperature Range	-25 °C to +60 °C	
Relative Humidity	0 to 95%, non-condensing	
Protection Degree	IP65	
Topology	Transformerless	
Features		
DC Connection	PV4 , MC4	
DC Disconnect	yes	
AC Connection	AC connectors	
Display	Graphic LCD screen	
Communication Interface	RS485 ; Ethernet (Option), WIFI (Option)	
Safety	VDE-AR-N 4105 ; IEC 62109-1 / -2	
Warranty	1 year	

* For VDE-AR-N4105, the inverter is rated 4,600VA

** Adjustable from 0.95 over-excited to 0.95 under-excited with VDE-AR-N 4105

*** Specifications are subject to change without prior notice.