

SELF-CONSUMPTION: SELFENERGY SERIES

Characteristics:

- Inverter for self consumption of PV electricity application
- Iconic display easy to monitor energy flow
- Default smart meter with split-core CT for smart load control and easy installation
- Selectable scenarios for sophisticated energy application
- Special external capacitor modular design for long life span
- High battery discharge power (5.3kW), charge / discharge efficiency > 95%
- Optimize charge / discharge control for long life span of Li-ion battery (optional)
- Extendable Li-ion battery pack design from 4kWh~20kWh (optional)
- IP65 fan-less nature cooling design / up to 50°C without derating



3.3 - 5 kW

self-consumption

Grid-Tied PV Inverter



Specification:

SELF-CONSUMPTION

Model	SLEFNERGY 3.3kW	SELFNERGY 4kW	SELFNERGY 5kW
Output Data (Grid)			
Maximum AC Output	3300W	4000W	5000W*
Maximum AC Output Current	16.5 a.c.A	20 a.c.A	22 a.c.A
Nominal AC Voltage	220-240 a.c.A		
Grid AC Frequency	50 / 60 Hz , 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 (Solar)			
Maximum Discharging Power	3600W	4300W	5300W
Maximum DC Input Current	18 d.c.A	21.5 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 - 500 d.c.V		
Peak Power Tracking Voltage Range	200 - 460 d.c.V		
Input Data (Battery)			
Maximum Discharging Power	3600W	4300W	5300W
Maximum Discharging Current	18.0 d.c.A	20 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 - 400 d.c.V		
Battery Type / Battery Capacity (range)	FLA , VRLA , Li-ion*** / 14 Ah ... 1000 Ah		
Charge Control	Constant Current (CC) , Constant Voltage (CV)		
Efficiency			
MPPT Efficiency	>99.9%		
Maximum Efficiency	96.5%	96.7%	96.9%
Euro. Efficiency	96.1%	96.3%	96.6%
Consumption : Operating (standby) / Night	< 12.5W / < 0.2 W		
General Specification			
Dimensions (W x H x D) in mm	405 x 442 x 165		
Weight	25.8 kg		
Cooling Concept	free convection		
Acoustic Noise Level	< 35dB (A)		
Maximum Operating Temperature Range without derating	-25 to ~ 60 °C	-20 to ~ 55 °C	
Ambient Temperature Range	-25 to + 60 °C		
Humidity	0 to 95% , non - condensing		
Protection Degree	IP65		
Topology	Transformerless		
Features			
DC Connection	Pv4 , Tyco , MC4		
DC Disconnect	yes		
AC Connection	AC connectors		
Display	Graphic LCD screen		
Communication Interface	Rs485 ; Bluetooth (Option)		
Safety	VDE - AR - N 4105 ; IEC 62109 -1 / -2		
Warranty	5 years		

* For VDE-AR-N4105, the inverter is rated 4600 VA.

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

*** With ARMSolar specified battery pack.