

Photovoltaic Inverter

Renewable Energy -Environmentally Friendly and Low Cost Energy Solutions





SELFNERGY SERIES

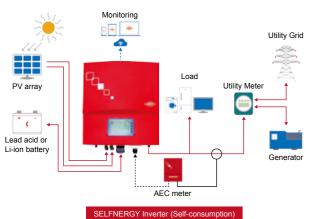
Single phase Self-Consumption Management

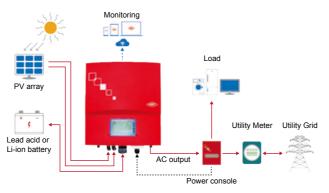
3.3 kW - 5kW

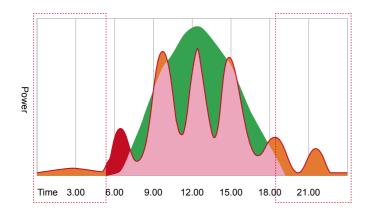
Features:

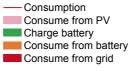
- · Self consumption application of solar power energy storage
- · User-friendly-interface to monitor energy flow easily
- · Intelligent load management with smart meter and split-core CT
- · Special external capacitor modular design extends life span
- · IP65 fan-less nature cooling design
- · Work 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 eneygy 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)	g.o		
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			
Maximum DC Voltage	1 650 d a V		
-	650 d.c.V		
MPP Tracking Voltage Range Peak Power Tracking Voltage Range	150 d.c.V - 500 d.c.V		
	200 d.c.V - 460 d.c.V		
Input Data (Battery)	3 600/4/	E 200\M	
Maximum Discharging Power	3,600W	5,300W	
Maximum Discharging Current	18 d.c.A	24.5 d.c.A	
Maximum Charging Current	20 d		
Maximum Battery Voltage	400 (
Configurable Battery Voltage Range	198 d.c.V - 400 d.c.V		
Charge Control	Contant 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	< 350	dB(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	IP		
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)		
COLLINATION OF THE CHARLES	VDE-AR-N 4105 ; IEC 62109-1 / -2		
Safety	\/DF_AD_N 4105	· IFC 62100-1 / -2	

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

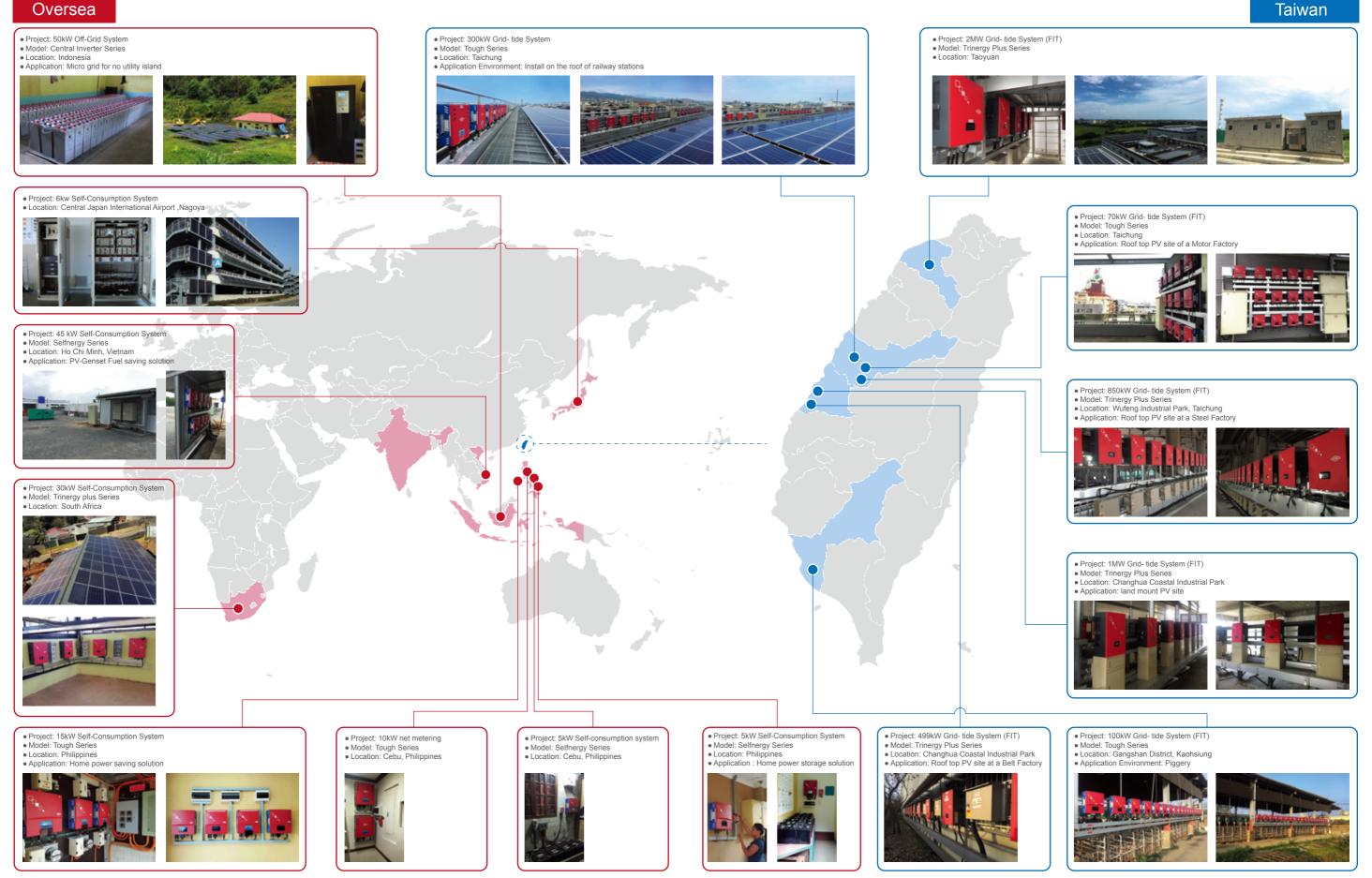
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^{**} Ajustable from 0.95 over-excited to 0.95 under-excited with VDE-AR-N 4105

^{***} Specifications are subject to change without prior notice.



Success Applications



Have installed more than 200MW PV sites since 2011...

Solar Power System Demonstration

Feed-in Tariff Application at Yangmei Factory

- · System Capacity : 498 kW
- · PV Modules : 295W × 1,961 pieces
- · Inverter Model: Trinergy plus 30 kW × 14 units and 20 kW × 2 units
- Average power generation estimated by year: = 492,104 kWh
 (about 2.9 kWh/day/kW × 498 kW × 365days)







Rooftop Mounting PV System



Trinergy plus PV Inverter

Brace Co. List PV Monitoring System | Section | Power | Po

Advanced Web Monitoring System

Why Solar Power...

- · Electrical bill saving
- · Safe, reliable and efficient power generator
- Reduce carbon footprint and emit no pollution
- · Versatile and convenient
- · Customized design

Why Allis' Inverter...

- · Optimum productivity
- · Wide range of MPPT voltage
- Full range product line from 3.3kW to 1,260kW, single to three phase
- 50 years stable operation company with professional experience in power electricity

Product Catalog

Model	Max. DC Voltage (d.c.V)	Max. Input Current (d.c.A)	Max. DC Input Power (W)	MPPT	Battery
Tough-3300	650	10 × 2	3,600	2	
Tough-5000		15 × 2	5,300	2	
Trinergy Plus-10kW	1,000	12.5 × 2	11,000	2	
Trinergy Plus-20kW		25 × 2	20,800	2	
Trinergy Plus-30kW		33 × 2	33,000	2	No
Trinergy Plus-40kW	1,100	74 × 1	55,000	1	
Trinergy Plus-50kW		90 × 1	66,000	1	
Trinergy Plus-60kW		120×1	72,000	1	
Trinergy Plus-70kW		120×1	77,000	1	
Selfnergy-3300	650	18 × 1	3,600	1	
Selfnergy-5000		24.5 × 1	5,300	1	Yes
Selfnergy-L 3.6K	550	11 × 2	4,000	2	res
Selfnergy- L 5K		11 × 2	5,500	2	
AEC500K-B	1,000	1,200 × 1	560,000	1	
AEC630K-B		1,350 × 1	710,000	1	No
AEC1000K-B	1,000	2 × 1,200 × 2	1,120,000	2	No
AEC1260K-B		2 × 1,350 × 1	1,420,000	2	

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Address: 12F., NO.19-11, Sanchong Rd., Nangang Dist., Taipei City 11501, Taiwan, R.O.C.

Telephone: 886-2-26553456

Fax: 886-2-26553388

E-Mail: tonychang@allis.com.tw / sales@allis.com.tw