



ALLIS ELECTRIC CO.,LTD.



# Photovoltaic Inverter

Renewable Energy -  
Environmentally Friendly and Low Cost Energy Solutions



Since 1968



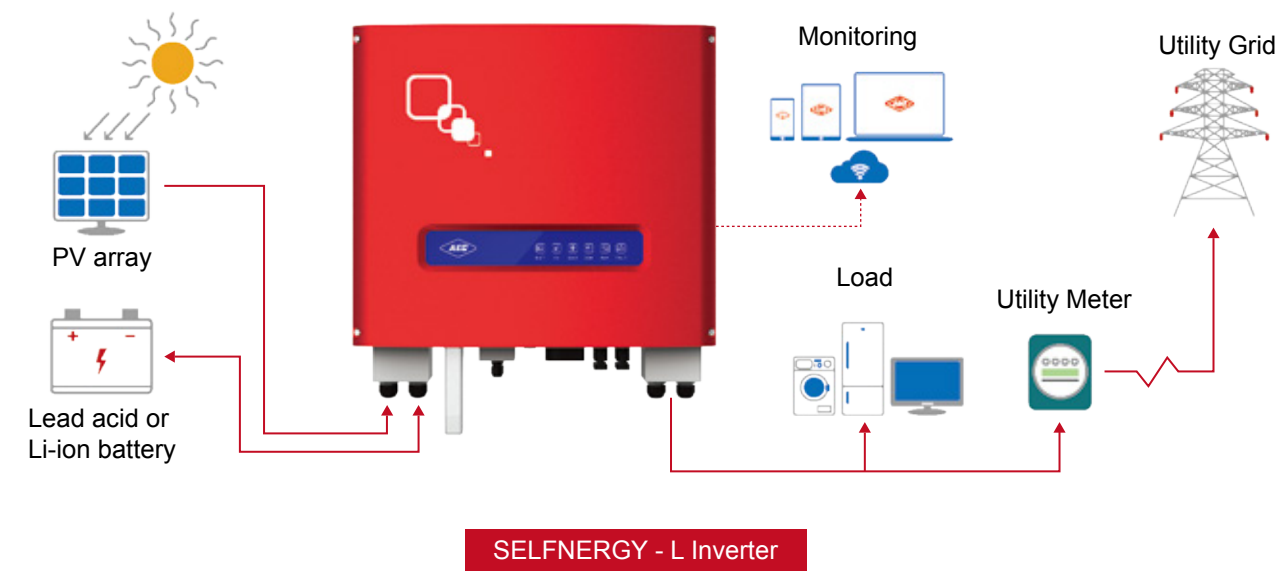


# SELFENERGY –L SERIES

Single phase 48VDC  
3.6 kW -5kW

Features :

- Off-grid Application Compatible; Uninterrupted power supply
- Water and dust proof (IP65)
- Full automatic control, flexible energy management
- Maximize self-consumption to lower your bills
- Easy compatible with Lithium-ion, Pb, Pb-C, Flow Battery etc.
- Optional CT or Smart Meter increase power control precisely
- Wall mounted or rack mounted is available



Specification :

Model	Selfnergy-L 3.6K	Selfnergy- L 5K
Output Data (AC)		
Rated Power	3,600W	5,000W
Rated Output Current	17 a.c.A	22.7 a.c.A
Rated Output Voltage	220 / 230 / 240 a.c.V	
Grid Voltage Range	184~265 a.c.V	
Grid Frequency Range	47.5~52.5Hz or 57.5~62.5Hz	
Power Factor	> 0.99	
Maximum Efficiency	97.5%	
Euro. Efficiency	96.5%	
Total Harmonic Distortion	< 2% (Full load)	
Input Data (DC)		
Maximum DC Power	4,000W	5,500W
Maximum DC Input Current	11 d.c.A × 2	11 d.c.A × 2
number of MPP Trackers / Strings	2/ 2 (can be parallel)	
Maximum DC Voltage	550 d.c.V	
MPP Tracking Voltage Range	125 d.c.V - 550 d.c.V	
Battery Inverter (Emergency Mode)		
Rated Output Voltage	220/ 230/ 240 a.c.V	
Output Frequency	50(60)±0.5 Hz	
Output Power	2500/3500 W	
Transfer Time	0ms	
Voltage Harmonic	< 2%(Ohmic load)	
Charge-Discharge		
Nominal Voltage	48 d.c.V	
Maximum Charging Power	2,500W (Settable)	
Maximum Charging Current	52 d.c.A (Settable)	
Maximum Discharging Power	2,500W	
Maximum Discharging Current	52 d.c.A	
Battery Type	Lithium / Pb-C/ Lead Acid	
System		
Isolation Mode(solar)	Transformerless	
Isolation Mode (battery)	High Frequency Transformer	
Cooling Concept	Natural Cooling	
Acoustic Noise Level	< 25dB	
Display	LED/ APP	
Ambient Temperature Range	-25 °C to +60 °C	
Relative Humidity	0 to 90%, non-condensing	
Protection Degree	IP65	
Operation Altitude	0~3000m	
Communication Interface	RS485 (Modbus)/ WIFI /DRM	
Accessories	CT, Smart meter (Optional)	
Dimensions (W x H x D) in mm	480 x 420 x 185	
Weight	25kg	
Certifications		
On-grid standard	G83/2, G59/3 , EN50438, CEI 0-21, AS4777.2:2015	
Safety	IEC62109-1, IEC62109-2, AS6040-1-1	
EMC	EN61000-6-3, EN61000-6-2	
Warranty	3 years	

\*Specifications are subject to change without prior notice.

# Solar Power System Demonstration

## Feed-in Tariff Application at Yangmei Factory

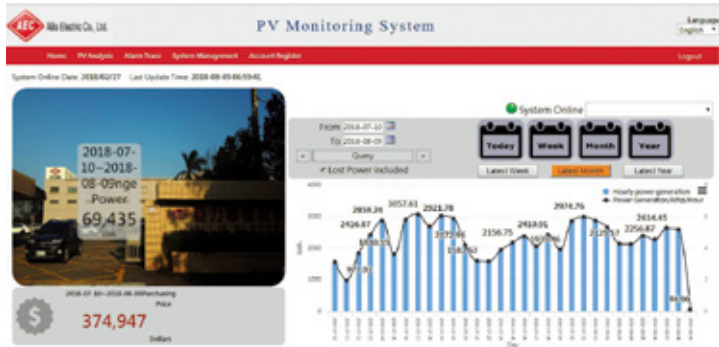
- System Capacity : 498 kW
- PV Modules : 295W × 1,961 pieces
- Inverter Model : Trinergy plus 30 kW × 14 units and 20 kW × 2 units
- Average power generation estimated by year: ≒ 492,104 kWh  
( about 2.9 kWh/day/kW × 498 kW × 365days)



Rooftop Mounting PV System



Trinergy plus PV Inverter



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	No
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	
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	Yes
Selfnergy-5000		24.5 × 1	5,300	1	
Selfnergy-L 3.6K	550	11 × 2	4,000	2	
Selfnergy- L 5K		11 × 2	5,500	2	No
AEC500K-B	1,000	1,200 × 1	560,000	1	
AEC630K-B		1,350 × 1	710,000	1	
AEC1000K-B	1,000	2 × 1,200 × 2	1,120,000	2	
AEC1260K-B		2 × 1,350 × 1	1,420,000	2	



# Success Applications

## Oversea

- Project: 50kW Off-Grid System
- Model: Central Inverter Series
- Location: Indonesia
- Application: Micro grid for no utility island



- Project: 300kW Grid- tide System
- Model: Tough Series
- Location: Taichung
- Application Environment: Install on the roof of railway stations



- Project: 2MW Grid- tide System (FIT)
- Model: Trinergy Plus Series
- Location: Taoyuan



## Taiwan

- Project: 6kw Self-Consumption System
- Location: Central Japan International Airport ,Nagoya



- Project: 45 kW Self-Consumption System
- Model: Selfnergy Series
- Location: Ho Chi Minh, Vietnam
- Application: PV-Genset Fuel saving solution



- Project: 30kW Self-Consumption System
- Model: Trinergy plus Series
- Location: South Africa



- Project: 15kW Self-Consumption System
- Model: Tough Series
- Location: Philippines
- Application: Home power saving solution



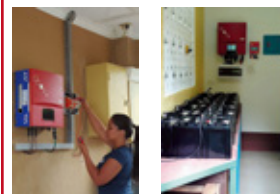
- Project: 10kW net metering
- Model: Tough Series
- Location: Cebu, Philippines



- Project: 5kW Self-consumption system
- Model: Selfnergy Series
- Location: Cebu, Philippines



- Project: 5kW Self-Consumption System
- Model: Selfnergy Series
- Location: Philippines
- Application : Home power storage solution



- Project: 499kW Grid- tide System (FIT)
- Model: Trinergy Plus Series
- Location: Changhua Coastal Industrial Park
- Application: Roof top PV site at a Belt Factory



- Project: 100kW Grid- tide System (FIT)
- Model: Tough Series
- Location: Gangshan District, Kaohsiung
- Application Environment: Piggery



- Project: 70kW Grid- tide System (FIT)
- Model: Tough Series
- Location: Taichung
- Application: Roof top PV site of a Motor Factory



- Project: 850kW Grid- tide System (FIT)
- Model: Trinergy Plus Series
- Location: Wufeng Industrial Park, Taichung
- Application: Roof top PV site at a Steel Factory



- Project: 1MW Grid- tide System (FIT)
- Model: Trinergy Plus Series
- Location: Changhua Coastal Industrial Park
- Application: land mount PV site



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





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