



ALLIS ELECTRIC CO.,LTD.

**SOLAR
POWER**



Photovoltaic Inverter

Renewable Energy -
Environmentally Friendly and Low Cost Energy Solutions



Since 1968

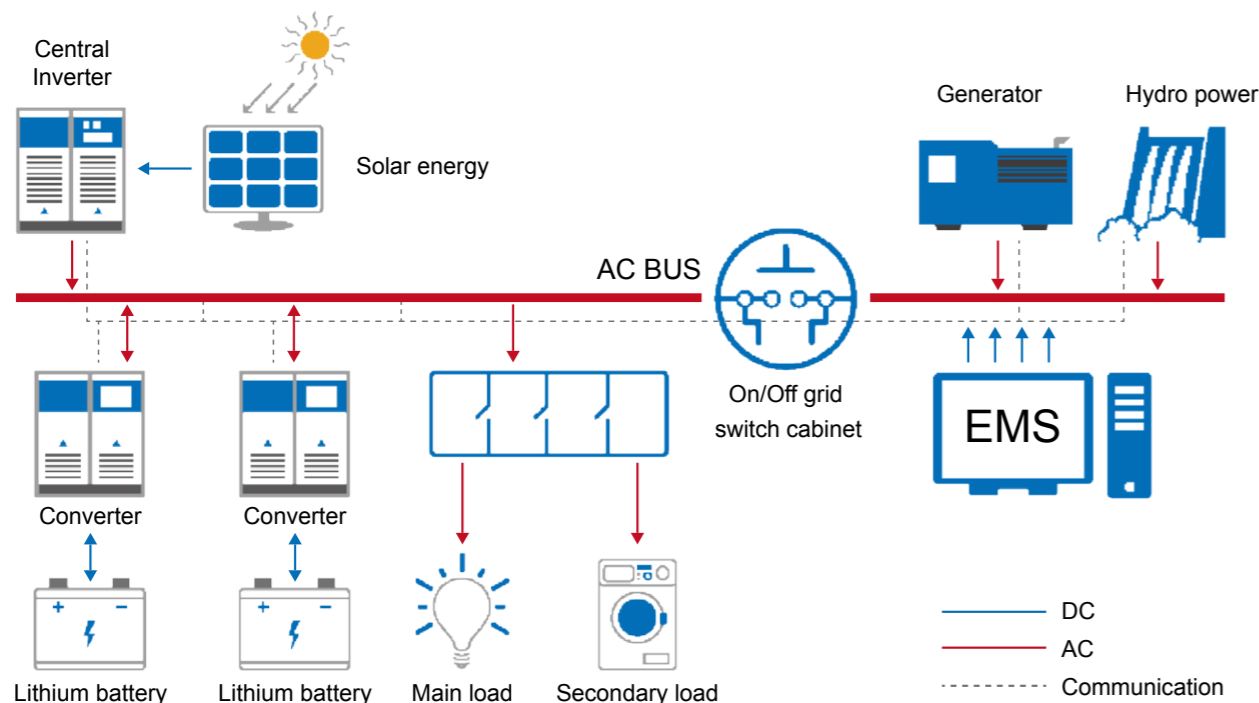
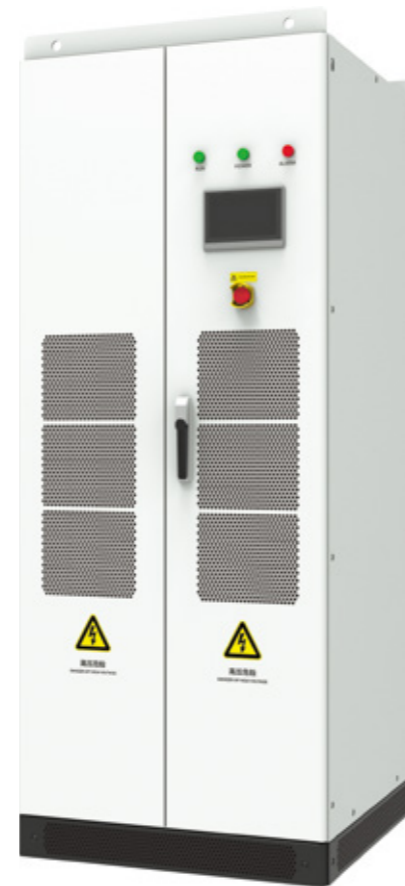


CENTRAL INVERTER

Stand Alone
500kW-630kW

Features :

- LCD touch screen display
- Power factor 0.9 lead ~ 0.9 lags adjustable continuously
- Intelligent Management : active and reactive power scheduling
- Compact design for easy installation, light weight, high power density in 0.6m²
- High reliability with DSP control
- Advanced three-level topology, maximum conversion efficiency 99%



Specification :

Model	AEC500K-B	AEC630K-B
Input Data (DC)		
Maximum PV Power	560 kW	710 kW
Maximum PV Input Voltage	1000 d.c.V	
Maximum DC Current	1,200 d.c.A	1,350 d.c.A
PV Input Strings Number	6	8
No. of MPPTs	1	1
MPP Tracking Voltage Range	460 ~ 850d.c.V	520 ~ 850d.c.V
Start-up voltage	480d.c.V	540d.c.V
MPPT Efficiency	99.90%	
Output Data (AC)		
Rated Output Power	500 kW	630 kW
Max. Output Power	550 kW	693 kW
Rated Output Voltage	315a.c.V	360a.c.V
Rated AC Frequency	50/60Hz	
Maximum Output Current	1,008 a.c.A	1,111 a.c.A
Total Harmonic Distortion	<3% (nominal power)	
Power Factor	> 0.99	
PF Adjustable Range	0.9 (leading)~0.9 (lagging)	
Efficiency		
Maximum Efficiency	99.0%	
Euro. Efficiency	98.7%	
General Specification		
Dimensions (W x D x H) in mm	800 × 800 × 2,000	
Weight	700kg	
Night Consumption	< 20 W	
Cooling Concept	Intelligent Forced Air Cooling	
Ambient Temperature Range	-25 °C to +55 °C	
Relative Humidity	0 to 95%, non-condensing	
Altitude	6,000m (> 3,000m derating)	
Protection Degree	IP20	
Features		
Display	LCD	
Communication Interface	RS485 , Ethernet (Optional)	

*Specifications are subject to change without prior notice.

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



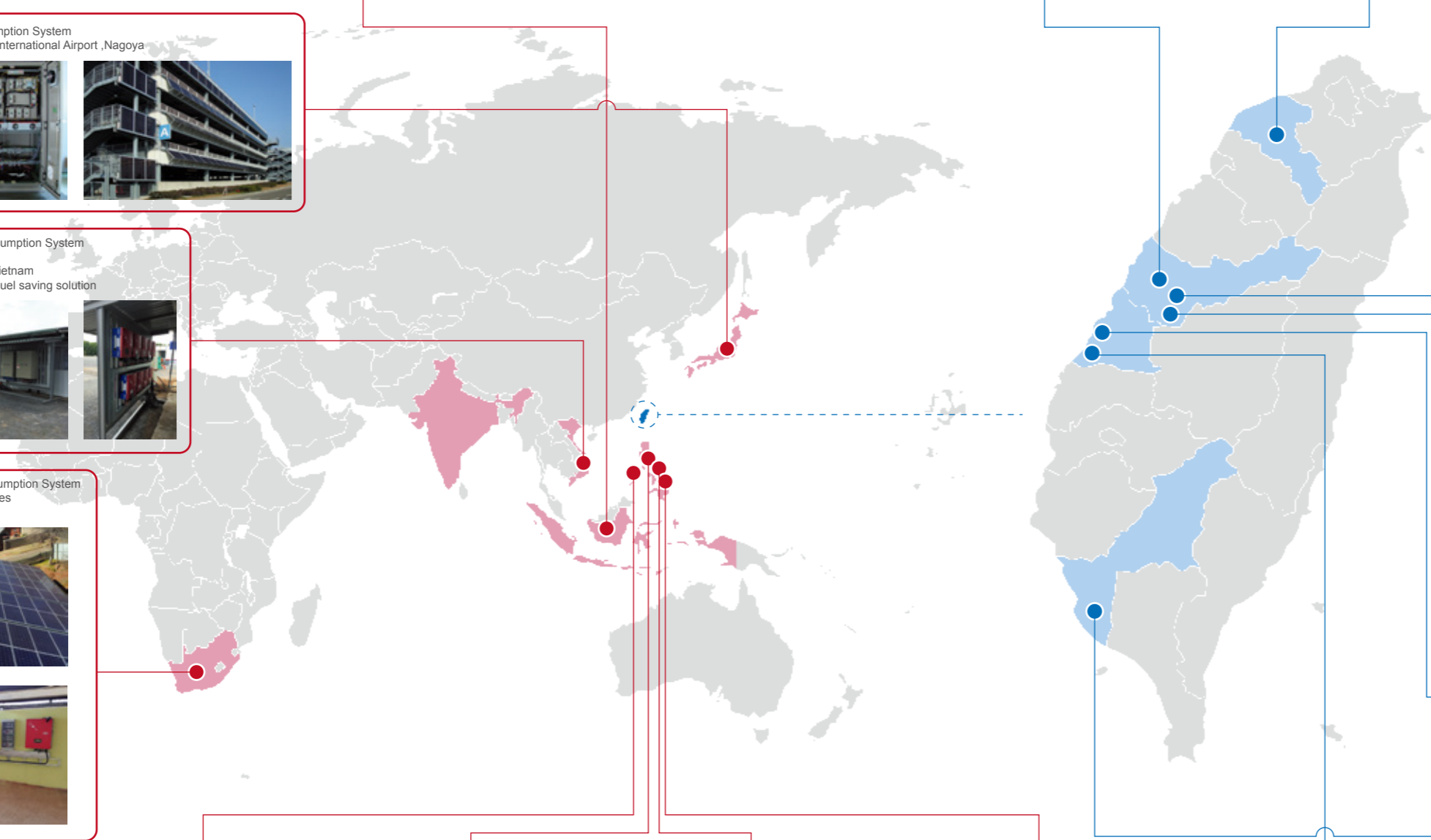
- Project: 70kW Grid-tide System (FIT)
- Model: Tough Series
- Location: Taichung
- Application: Roof top PV site of a Motor Factory



- 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...

Solar Power System Demonstration

Feed-in Tariff Application at Yangmei Factory

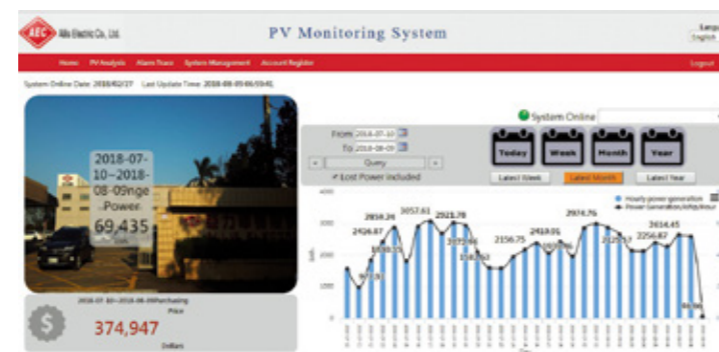
- System Capacity : 498 kW
- PV Modules : 295W × 1,961 pieces
- Inverter Model : Trinergy plus 30 kW × 14 units and 20 kW × 2 units
- Average power generation estimated by year: ≒ 492,104 kWh
(about 2.9 kWh/day/kW × 498 kW × 365days)



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		74 × 1	55,000	1	
Trinergy Plus-50kW	1,100	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	
Selfnergy-L 3.6K	550	11 × 2	4,000	2	
Selfnergy- L 5K		11 × 2	5,500	2	
AEC500K-B	1,000	1,200 × 1	560,000	1	No
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	



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