

Photovoltaic Inverter

Renewable Energy -Environmentally Friendly and Low Cost Energy Solutions



Three Phase Grid-tied Solar Inverter

40KW 50KW 60KW

70KW

_



Description

TRINERGY PLUS three-phase grid-tied solar inverters adopt the latest technologies combination of T Topology three level topology and SVPWM, provide flexible system configuration and monitoring solutions for household, commercial and power plant systems.

Features

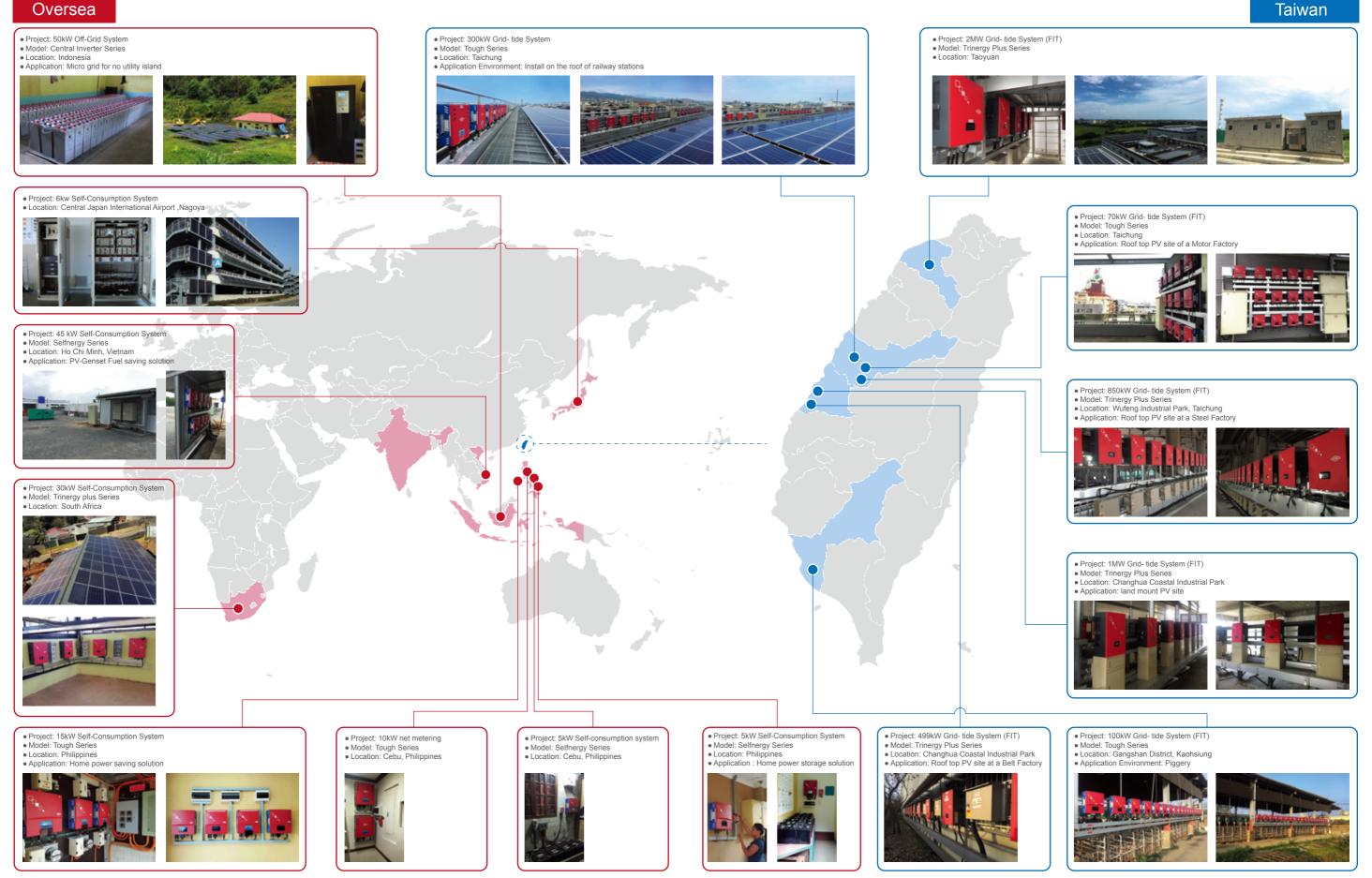
- Dual MPPTs work independently and allow unbalanced input power. One MPPT maximum input is up to 60% of Max. DC power.
- High efficiency and stable performance at entire input voltage and output power range.
- Max efficiency is up to 98.6%.
- Wide input voltage range gives more possibilities for accepting different string configuration and different Topology of PV modules.
- Bus capacitors consist of advanced film capacitors, designed with the latest thermal simulation technology for longer lifespan.
- Integrated intelligent DC combiner and surge protection improve system's flexibility and lower the cost.
- 5V 200mA auxiliary DC power interface is optional for system expansion.
- AC output power is adjustable between 1-100%.
- Reactive power control and Power factor adjustable: 0.8 leading ~ 0.8 lagging.
- RS485, Ethernet, WiFi, GPRS Communication modes are optional for realizing multiple monitoring solutions via local or internet by PC, smart phone, etc.

Specification

	40KW	50KW	60KW	70KW			
Input (DC)							
Max. DC input power (W)	55000	66000	72000	77000			
Max. DC input voltage (V)	1100						
Starting voltage (V) /							
Min. operation voltage (V) MPPT Range(V) /	200/570						
Rated input voltage(V)	570-950/740						
Number of MPPT / String per MPPT	1/10	1/12	1/14	1/14			
Max. DC current (A) Per MPPT x Number of MPPT	74x1	90x1	120x1	120x1			
DC switch	Integrated						
Output (AC)							
Rated output power (W)	40000	50000	60000	66000			
Max. AC output current(A)	64	80	96	96			
Grid voltage range	3/N/PE,230/400,310-480Vac						
Grid frequency range	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz)						
Power factor	-0.8~+0.8 (adjustable)						
THDi	< 3% (at rated power)						
AC output	Three-phase (L1, L2, L3, N, PE)/(L1, L2, L3, PE)						
System							
Cooling method	Smart cooling						
Max. efficiency	98.90%	98.90%	99.00%	99.00%			
Euro-efficiency	98.50%	98.50%	98.50%	98.50%			
MPPT efficiency	99.90%						
Protection degree	IP65						
Self-consumption(at night)	<0.5 (W)						
Topology	Transformerless						
Operating temperature range	-25℃~+60℃(derate after 45℃)						
Relative humidity	0~95%, no condensation						
Protection	PV array insulation protection, PV array leakage current protection, Ground fault monitoring, Grid monitoring,						
Noise (dB)	Island protection, DC monitoring, Short current protection etc. < 60						
Display and communication							
Display		3.5 inches LCD display,	, support backlit display				
LCD language	English, Chinese, German, Dutch						
Keyboard	Integrated						
Communication interface	RS485 (standard); WiFi, GPRS200(optional), PLC carrier communication(optional)						
Mechanical parameters							
Dimension (H x W x D mm)	810X645X235						
Weight (kg)	53						
Installation	Wall mounting						
Others							
DC terminal	Waterproof terminals, PC(optional)						
Grid qualification	NB/T 3200-2013,TUV,CE,VDE0126-1-1,VDE-AR-N4105,G59/3,C10/11,TF3.2.1,AS/NZS,						
Safe certificates /	4777.2:2015,EN61000-6-1:4,EN61000-6-1:4,EN61000-11:12,IEC62109-1:2010,PEA,ZVRT VDE-AR-N4105, AS4777/3100, CQC						
EMC certificates							
Factory warranty	5 years(standard)						



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	
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	

02





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