

TRINERGY PLUS SERIES

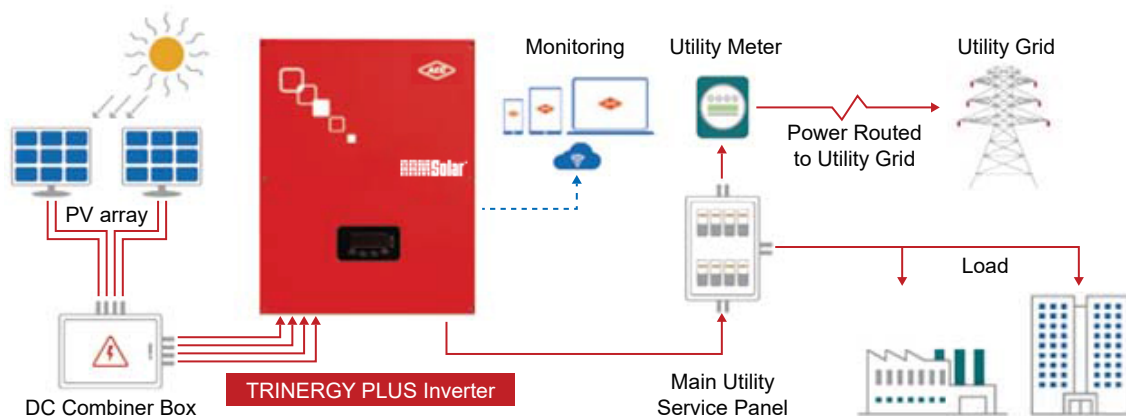
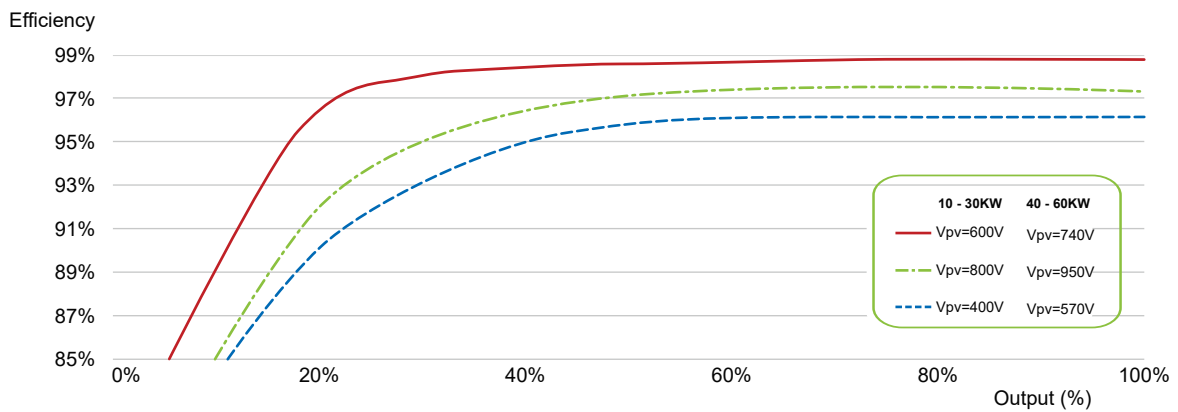
Three phase Grid-Tied
10 kW – 60kW

Features :

- Dual or independent MPPTs(10kw-60kw), each MPPT can work up to 60% of maximum DC power
- High efficiency and stable performance at entire input voltage and output power range
- Maximum efficiency is up to 99%
- Wide input voltage range gives more possibilities for applying wide range of PV modules
- BUS capacitor adopts advanced film capacitor, designed with the advanced thermal simulation technology for longer lifespan
- RS485 communication modes are optional for realizing multiple monitoring solutions via PC, mobile phones, internet etc. platforms
- Horizontal air flow design, easy for maintenance



Grid-tied Solution



Specification :

Model	Trinergy Plus-10kW	Trinergy Plus-20kW	Trinergy Plus-30kW	Trinergy Plus-40kW	Trinergy Plus-50kW	Trinergy Plus-60kW
Output Data (AC)						
Rated power	10,000W	20,000W	30,000W	40,000W	50,000W	60,000W
Maximum AC Output Current	14 a.c.A	32 a.c.A	48 a.c.A	64 a.c.A	80 a.c.A	96 a.c.A
Rated AC Voltage Range	3/PE,230/400V,(320~460V) ; 3/PE,220/380V,(320~460V)	3/N/PE, 230/400V , (320~460V) ; 3/N/PE, 220/380V , (320~460V)		3/N/PE,230/400V, (310~460V)		
Grid AC Frequency	50Hz (47 ~ 51.5Hz) / 60Hz (57 ~ 61.5Hz)					
Power Factor	- 0.8 ~ + 0.8 (Adjustable)					
Total Harmonic Distortion	< 3% (at rated power)					
AC connection / Grid forms	Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE)					
Input Data (DC)						
Maximum DC Voltage	1,000 d.c.V			1,100 d.c.V		
Starting voltage	220 d.c.V	300d.c.V		200d.c.V		
Min. operation voltage	150 d.c.V	280 d.c.V		570d.c.V		
MPPT Operating voltage range/Rated voltage	200~800 d.c.V/ 580 d.c.V	280~800 d.c.V / 610d.c.V		570~950 d.c.V/ 740d.c.V		
Maximum DC Power	11,000 W	20,800 W	33,000 W	55,000 W	66,000 W	72,000 W
Number of MPPT/ String per MPPT	2/1	2/3		1/10	1/12	1/14
Number of MPPT × Maximum DC Current Per MPPT	2× 12.5 d.c.A	2×25 d.c.A	2×33 d.c.A	1×74 d.c.A	1×90 d.c.A	1×120 d.c.A
DC Switch	Optional	Integrated				
Efficiency						
MPPT Efficiency	99.9%					
Maximum Efficiency	98.3%	98.4%	98.5%	98.9%	98.9%	99.0%
Euro. Efficiency	97.8%	98.0%	98.0%	98.5%	98.5%	98.5%
Consumption at Night	< 0.5W					
General Specification						
Dimensions (H xW x D) in mm	575 × 360 × 150	660 × 520 × 250		810 × 645 × 235		
Weight	23kg	52kg		53kg		
Cooling Concept	Smart Cooling method					
Acoustic Noise Level	< 50dB			< 60dB		
Operating Temperature	-25 °C to +60 °C, > +45 °C derating					
Relative Humidity	0 to 95%, non-condensing					
Protection Degree	IP65					
Topology	Transformerless					
Features						
Display	LCD display, support backlit display					
Keyboard	Integrated					
Communication Interface	RS485 (Standard)					
Safety	IEC2109-1, IEC62109-2, IEC61000, VDE-AR-N4105:2011, DIN VDE V 0124-100:2012, DIN VDE 0126-1-1:2013	IEC62109-1, IEC62109-2, IEC61000, IEC61727, IEC62116 , IEC60068, IEC61683, VDE-AR-N4105:2011, DIN VDE V 0124- 100:2012, DIN VDE 0126-1-1:2013		IEC2109-1, IEC62109-2, VDE-AR-N4105:2011, DIN VDE V 0124-100:2012, DIN VDE 0126-1-1:2013		
Warranty	5 years					

*Specifications are subject to change without prior notice.