

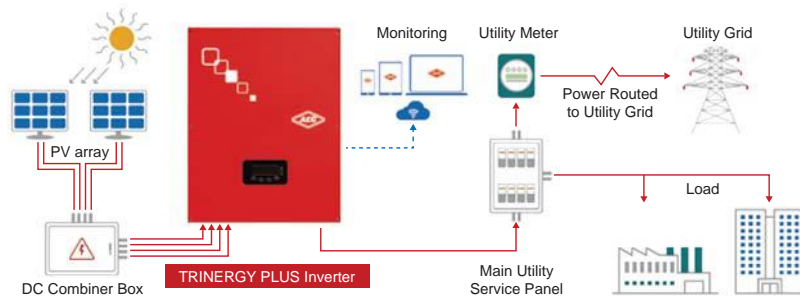
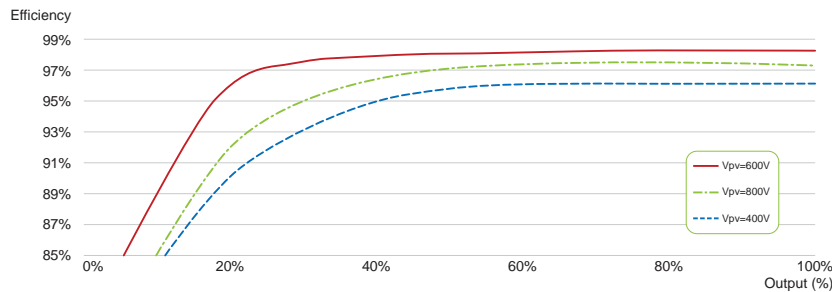
TRINERGY PLUS SERIES

Three phase Grid-Tide

10 kW – 70kW

Features :

- Dual independent MPPTs(10kw-30kw), 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 98.5%
- Wide input voltage range gives more possibilities for applying wild 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



Specification :

| Model | Trinergy Plus-10kW | Trinergy Plus-20kW | Trinergy Plus-30kW | Trinergy Plus-40kW | Trinergy Plus-50kW | Trinergy Plus-60kW | Trinergy Plus-70kW |
|--|---|--|--|-----------------------------|--------------------|--------------------|--------------------|
| Output Data (AC) | | | | | | | |
| Rated power | 10,000W | 20,000W | 30,000W | 40,000W | 50,000W | 60,000W | 66,000W |
| 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 | 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 Votage | 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 | 77,000 W |
| Number of MPPT/ String per MPPT | 2/1 | 2/3 | | 1/10 | 1/12 | 1/14 | |
| Number of MPPT x Maximum DC Current Per MPPT | 2x 12.5 d.c.A | 2x25 d.c.A | 2x33 d.c.A | 1x74 d.c.A | 1x90 d.c.A | 1x120 d.c.A | 1x120 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% | 99.0% |
| Euro. Efficiency | 97.8% | 98.0% | 98.0% | 98.5% | 98.5% | 98.5% | 98.5% |
| Consumption at Night | < 0.5W | | | | | | |
| General Specification | | | | | | | |
| Dimensions (H xW x D) in mm | 575 x 360 x 150 | 660 x 520 x 250 | | 810 x 645 x 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 backlight display | | | | | | |
| Keyboard | Integrated | | | | | | |
| Communication Interface | RS485 (Standard) | | | | | | |
| Safety | IEC2109-1, IEC62109-2, IEC61000, IEC61727, IEC62116 , IEC60068, IEC61683, 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.