Tasol Hybrid Solar - TRIA



Your all in one solar power solution

- Easy to install(plug and play)
- Grid tied, hybrid or off grid capability
- Built in MPPT charge controller
- Settings to charge and discharge batteries for optimal power options
- Can be connected to a back up generator for additional power options
- Software allows energy generation reports to be downloaded
- 3 phase inverter

TAKING THE POWER INTO YOUR HANDS



SOLAR ENERGY SOLUTIONS & BACK-UP STORAGE

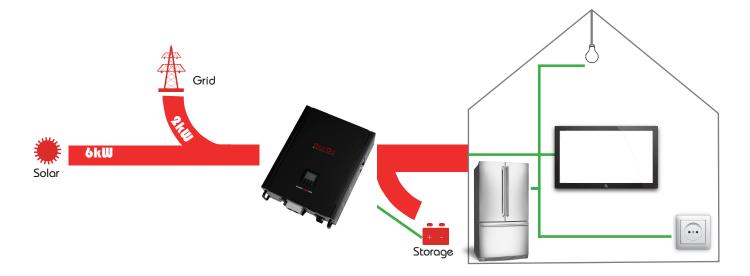
Tasol Hybrid TRIA PLUS - 10kw Specifications

MODEL	TRIA -10 kw	
PHASE	3-phase in / 3-phase out	
RATED OUTPUT POWER	10000 ω	
PV INPUT (DC)		
Maximum DC Power	14850 W	
Nominal DC Voltage	720 VDC	
Maximum DC Voltage	900 VDC	
Working DC Voltage Range	300 VDC / 900 VDC	
Start-up Voltage / Initial Feeding Voltage	320 VDC ~ 350 VDC	
MPP Voltage Range	350 VDC ~ 850 VDC	
Maximum Input Current	2*18.6 A	
Isc PV (absolute maximum)	25 A	
Max. inverter backfeed current to the array	0 A	
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC per phase	
Output Frequency Range	47.5 ~ 51.5 Hz or	
	59.3 ~ 60.5 Hz	
Nominal Output Current	14.5 A per phase	
Inrush Current	17 A per phase / 20ms	
Maximum Output Fault Current/ Duration	51 A per phase / 1 ms	
Maximum output Overcurrent Protection	51 A per phase	
Power Factor Range	0.9 lead — 0.9 lag	
AC INPUT		
AC Start-up Voltage	120 – 140 VAC per phase	
Auto Restart Voltage	180 VAC per phase	
Acceptable Input Voltage Range	170 – 280 VAC per phase	
Nominal Frequency	50 Hz / 60 Hz	
AC Input Power	10000 VA / 10000W	
Maximum AC Input Current	25 A	
Inrush Input Current	25 A / 1ms	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	120-140 VAC per phase	
Output Frequency	50 Hz / 60 Hz (auto sensing)	
Output Waveform	Pure sine wave	
Output Power	10000VA/10000W	
Efficiency (DC to AC)	91%	
BATTERY & CHARGER		
DC Voltage Range	40 - 60 VDC	
Nominal DC Voltage	48 VDC	
Maximum Battery Discharging Current	272 A	
Maximum Charging Current	200 A	

GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	622 x 500 x 167.2
Net Weight (kgs)	45
INTERFACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10 to 55°C (Poer derating above 50°C)
Altitude	Max. 2000 m**

^{*}This figure may vary depending on different AC voltage.

^{**}Power derating 1% every 100 m when altitude is over 1000m.



A perfect all-in-one power solution, with multiple power source coupling.

It is a smart inverter, prioritising solar power whilst charging batteries for alternative energy source and only use the grid power for the balance of the energy requirements. Using PV (photovoltaic), battery and grid readings, with a built-in MPPT controller, it optimises the performance of the system according to the required production and consumption needs of the house. During consumption peaks, it complements the solar power source with battery and public grid sources. The Hybrid TRIA is a 10kw Plus inverter, allowing to couple grid-, solar- and battery power for a bigger output (up to 10kW) to the household for peak demand requirements.

This functionality guarantees constant power supply to the home, without having to switch between sources which often leads to micro-cuts of electricity supply and solves concerns for energy intermittence and fluctuation





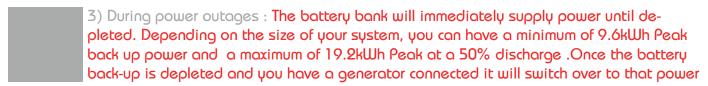
How does the Hybrid Solar system work?



1) During the day: It first uses solar power whilst the sun is shinning. Only additional power required is drawn from the grid. At the same time it assures that batteries are changed.



2) During the evening: It will discharge batteries to a certain capacity allowing you yo benefit from the power generated during the day first, then switch over to the grid to draw power. This also ensures that battery life is protected.



The perfect solution to your TASOL energy efficiency products installed

Did you know? When you reduce your household consumption by implementing energy efficiency technologies such as solar geysers , heat pumps , gas stoves, energy saving lights and appliances , roof insulation and others. You can save an average up to 60% of you electricity bill and daily consumption

Surtainable Energy Solutions partner

T's & C's Apply

Contact Details

Tel: 086 111 3078 Email: sales@tasolsolar.co.za









Solar Academy of Sub Saharan Africa (PTY) Ltd.

T's & C's Apply













