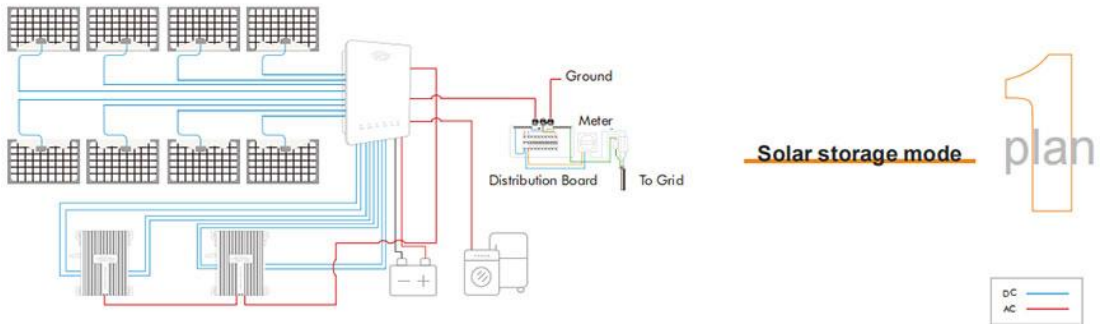
1600W Three-Phase Microinverter

As the world shifts from fossil fuels to clean energy, we are pleased to see the deployment of solar systems accelerate around the world, and our Tiger series 1600W Three-Phase Microinverter are also recognized by customers in various regions. Wocor is proud to be your reliable partner as we move together towards our goal of energy independence and a greener future. WoCor Poweray Tiger series 1600W Three-Phase Microinverter perform the same basic function as string inverters, except they are installed underneath each solar panel on your roof. Each of these microinverters is about the size of an internet router.

Product Description

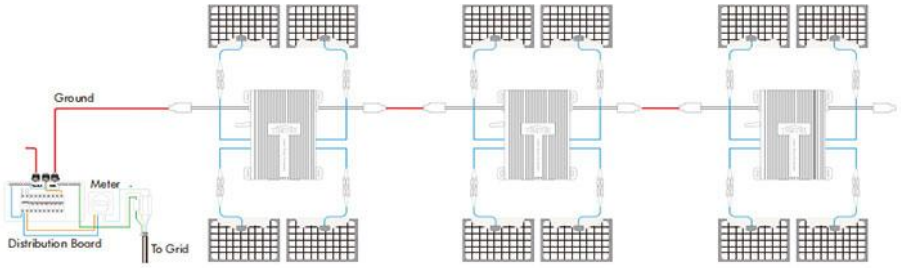
The Tiger series 1600W Three-Phase Microinverter adopts the 4 in 1 Circuit Technology, which means four photovoltaic panel inputs can share one MPPT system that keeps the power output and transmission stability. When working, these four channels of Tiger series 1600W Three-Phase Microinverter will never interfere with each other while tracking the maximum power point, which efficiently makes the static MPPT efficiency up to 99.9%.

The Tiger series 1600W Three-Phase Microinverter is lightweight and easy to install, many inverters can be stacked arbitrarily to form a single-phase parallel stacking system. Almost no maintenance work is required, clean the dust on the photovoltaic panel occasionally.



plan 2

On-grid mode



Product information	
Model	Tiger-1.6KW
PV Input Data	
Number of MPPT Trackers	4
Suggested Modules Range	300W-400W
Max. Input DC Voltage	60V
MPPT Operating Voltage Range	25-60V
Startup Voltage	20V
Overvoltage Class DC Port	II
DC Port Backfeed Current	0 A
Max. Input Current	4 × 15 A
PV Array Requirement	4x1 Ungrounded array; No Additional PV side protection required
AC Output Data	
Peak Output Power	4200W
Max. Continuous Output Power	1600W
Max. Continuous Output Current	6.95A
Nominal output voltage	220/230Vac(187-278Vac)
Nominal Frequency/Range	50HZ/60HZ
Extended Frequency/Range	45~55Hz / 55~65Hz
AC Short Circuit Current	14A
Max. Units Per Branch Circuit	3
Overvoltage Class AC Port	III
Power Factor(Adjustable)	>0.99 Default, 0.8 Leading...0.8 Lagging...
Level of Harmonics Distortion	<3%
AC Protection Required	AC output side need 63A circuit breaker(on grid modle)
Efficiency	
CEC Weighted Efficiency	95%
Peak Inverter Efficiency	95.50%
Static MPPT Efficiency	99%

Night Time Power Consumption	＜50mW
Mechanical Data	
Operating Ambient Temperature Range	-40 °C to +65 °C(-40 °F to +149 ° F)
Storage Ambinet Temperature	-40 °C to +85 °C(-40 °F to +185° F)
Relative Humidity Range	4% to 100% (condensing)
Connector type: DC	MC4
Dimensions(W*H*D)	270*300*45mm
Weight	5.2 KG
Cooling	Natural Convection-No Fans
Approved for Wet Locations	Yes
Enclosure Rating	IP67
AC Cable Length(Customizable)	Standard 2.5m(customized available)
Features	
Communication	WIFI
Monitoring	Support remote web page monitoring and mobile APP by WoCor Poweray Cloud
Compliance	Inmetro, UL1741, VDE4105, VDE0126, CE,EN50549...
*Support off-grid operation and battery mode operation without mains power	

Product Feature And Application of the 1600W Three-Phase Microinverter

*Solar panels output voltage <60VDC, decrease the risk of an electrical fire.
*One panel match one MPPT, increase 5-15% power in production vs string inverters.
*Keep each panel to work individually, avoid the impact of partial shadows on the entire solar system
*Independently tracking each of solar panels production, easy to identify each solar panel performs.
*Flexible application, could switch to off-grid mode to supply AC power to home devices.
*Lightweight and compact with plug-and-play connectors, easy to in stall.
*App monitor the running station anytime, anywhere.