

## NEOSUN TPI - 5K | 6K | 8K | 10K

### Features

#### EFFICIENCY

98.3%

- Maximum Efficiency up to 98.3%
- European Efficiency up to 98.0%
- 2 MPP trackers with efficiency up to 99.9%
- Innovative topology creates lower THDi
- Ultra wide MPPT Voltage range

#### FLEXIBILITY



- Scalable architecture
- Easy installation and free maintenance
- Light in weight, wall-mounted
- Multiple monitoring and communication functions (Wi-Fi /RS485/Ethernet)
- Super large 5-inch LCD

#### RELIABILITY



- IP65 water-proof and dust-proof rating
- Integrated smart combiner box
- Self-diagnosis with up to 2 strings DC inputs
- DC & AC lightning protection (Type II)
- Anti-islanding protection
- Up to 10 safety measurements
- DC switch (optional)
- Warranty - 5 years



### Overview

The NEOSUN TPI 5kW | 6kW | 8kW | 10kW is the next step in performance for On-Grid Inverter was designed for the home solar systems. By adopting cutting-edge technology of photovoltaic field, it provides three phase AC output, making home system connection well balanced, safer and more convenient.

The integrated two MPPTs allow two-array inputs from different roof orientations. And the combination of both RS485 and Wi-Fi communication makes the system well interactive and extremely easy to monitor.

Thanks to its high performance, efficiency of 98.3%, innovative features and flexible design, the NEOSUN TPI series becomes the right choice for you.

Input (DC)	TPI-5K	TPI-6K	TPI-8K	TPI-10K
Max DC input power	6500W	7800W	9600W	12000W
Nominal DC input power	5200W	6200W	8300W	10500W
Max DC input voltage	1000VDC			
MPPT voltage range	200~800VDC			
Starting voltage	180VDC			
No. of DC connectors	2	2	2	2
Max input current per MPPT	11/11	11/11	11/11	11/11
Number of MPP trackers	2			
Output (AC)				
Nominal AC power	5kW	6kW	8kW	10kW
Max AC power	5000W	6000W	8000W	10000W
Max output current	8.5A	10A	12.1A	15.2A
Nominal AC voltage	400VAC			
AC grid frequency	50Hz/60Hz			
AC voltage range	310~480VAC			
AC grid frequency range	44~55Hz / 54~65Hz			
Grid connection	3W/N/PE			
Power factor	0.8 leading~0.8 lagging			
Harmonics (THD)	<1.5%		<2%	
Efficiency				
Max efficiency	98.0%	98.0%	98.3%	98.3%
European efficiency	97.5%	97.5%	98.0%	98.0%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
Protection				
Residual current monitoring unit	Integrated			
Anti-islanding protection	Integrated			
DC switch	Integrated (optional)			
AC over current protection	Integrated			
Insulation monitoring	Integrated			
General data				
Dimensions (W/H/D)	516x474x192 mm			
Weight	24kg	24kg	24kg	24kg
Working temperature	-25°C to +60°C (>45°C derating)			
Relative humidity	0~95%			
Cooling method	Natural convection			
Noise	< 30dB			
Night power consumption	< 1W			
Mounting	Wall bracket			
Topology	Transformerless			
Display	5.0" LCD			
Protection degree	IP65			
Max operating altitude	4000m (> 3000m derating)			
Communication	Wi-Fi; RS485 or Ethernet			
Warranty	5 years			