NEOSUN TPI-50K|60K|65K|75K

Features

EFFICIENCY

98.8%

- Maximum Efficiency up to 98.8%
- European Efficiency up to 98.5%
- 4 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)
- Ultra-multifunctional LED display screen

RELIABILITY

- IP65 water-proof and dust-proof rating (IP68 protection level for the fans)
- Integrated smart combiner box
- Self-diagnosis with up to 13 strings DC inputs
- DC & AC lightning protection (Type II)
- Anti-islanding protection
- Up to 10 safety measurements
- Warranty – 5 years

Overview

NEOSUN TPI 50kW | 60kW | 65kW | 75kW are ideal On-Grid Inverters for large and medium-sized solar power systems in the commercial sector, especially for large-scaled commercial roof and farm plants. It has been engineered to enable a mini-central system architecture that reduces balance-of-system costs.

With its innovative scalable architecture, high performance and efficiency of 98.8% this on-grid inverter is a flexible solution, aiming at maximizing long-term returns and profitability for the system owner.

Input (DC)	TPI-50K	TPI-60K	TPI-65K	TPI-75K
Max DC input power	60000W	72000W	75000W	80000W
Nominal DC input power	51500W	62000W	67000W	77000W
Max DC input voltage	1000VDC			
MPPT voltage range	260~850VDC			
Starting voltage	250VDC			
No. of DC connectors	10	12	12	13
Max input current per MPPT	28/28/19/19	28/28/28/28	28/28/28/28	28/28/28/36
Number of MPP trackers	4			
Output (AC)				
Nominal AC power	50kW	60kW	65kW	75kW
Max AC power	55000W	64000W	66480W	75000W
Max output current	80A	90A	80A	90A
Nominal AC voltage	400VAC		480VAC	
AC grid frequency	50Hz/60Hz		50Hz/60Hz	
AC voltage range	310~480VAC		422~528VAC	
AC grid frequency range	44~55Hz / 54~65Hz			
Grid connection	3W/N/PE			
Power factor	0.8 leading~0.8 lagging			
Harmonics (THD)	<3%			
Efficiency				
Max efficiency	98.7%	98.8%	98.8%	98.8%
European efficiency	98.3%	98.5%	98.5%	98.5%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
Protection				
Residual current monitoring unit	Integrated			
Anti-islanding protection	Integrated			
PV array string fault monitoring	Integrated			
DC fuse	Integrated			
DC switch	Integrated (optional)			
DC surge protection	Type II			
AC surge protection	Type II			
SPD fault monitoring	Integrated			
AC over curent protection	Integrated			
Insulation monitoring	Integrated			
General data				
Dimensions (W/H/D)	586x915x263 mm			
Weight	66kg	67kg	67kg	67kg
Working temperature	-25°C to +60°C			
Relative humidity	0~95%			
Cooling method	Fan cooling			
Mounting	Wall bracket			
Topology	Transformerless			
Display	LCD			
Protection degree	IP65			
Max operating altitude	4000m			
Communication	Wi-Fi; RS485 or Ethernet			
Warranty	5 years			