

# SINGLE PHASE ON-GRID PV INVERTERS

---

## NEOSUN SPI - 1500 | 3000 | 3600 | 4200 | 5000W

### Features

#### EFFICIENCY

97.8%

- Maximum Efficiency up to 97.8%
- European Efficiency up to 97.5%
- 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)
- LCD Display

#### RELIABILITY



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



### Overview

The NEOSUN SPI-1500W | 3000W | 3600W | 4200W | 5000W specially designed for Indoors and outdoors usage to ensure smooth operation under extreme environmental conditions and suitable for any outdoor climate.

With its small size, high performance, efficiency of above 97.8% and dual MPP trackers this transformerless On-Grid Single Phase inverter is a good choice for home use and small PV Solar Systems.

Comprehensive MPPT technology, software and hardware technology is guaranteed to maximize the life-span of these inverters.

Input (DC)	SPI-1500	SPI-3000	SPI-3600	SPI-4200	SPI-5000
Max DC input power	1950W	3900W	4680W	5460W	6500W
Nominal DC input power	1800W	3200W	3960W	4600W	5500W
Max DC input voltage	500VDC		580VDC		
MPPT voltage range	80~450VDC		80~550VDC		
Starting voltage	80VDC		120VDC		
No. of DC connectors	1	1	2	2	2
Max input current per MPPT	10	18	11/11	11/11	11/11
Number of MPP trackers	1	1	2	2	2
Output (AC)					
Nominal AC power	1500W	3000W	3600W	4200W	5000W
Max AC power	1500W	3000W	3600W	4200W	5000W
Max output current	7.5A	13.5A	16.0A	19.0A	22.8A
Nominal AC voltage	230VAC				
AC grid frequency	50Hz/60Hz				
AC voltage range	180~270VAC				
AC grid frequency range	44~55Hz / 54~65Hz				
Grid connection	Single phase				
Power factor	0.8 leading~0.8 lagging				
Harmonics (THD)	< 3%				
Efficiency					
Max efficiency	97.0%	97.5%	97.8%	97.8%	97.8%
European efficiency	96.0%	97.0%	97.5%	97.5%	97.5%
MPPT efficiency	99.9%	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)	334x275x128 mm		347x432x145 mm		
Weight	7.5kg	8.5kg	14kg	14kg	14kg
Working temperature	-25°C to +60°C (>45°C derating)				
Relative humidity	0~95%				
Cooling method	Natural convection				
Noise	< 25dB				
Night power consumption	< 1W				
Mounting	Wall bracket				
Topology	Transformerless				
Display	LCD				
Protection degree	IP65				
Max operating altitude	4000m (> 3000m derating)				
Communication	Wi-Fi; RS485 or Ethernet				
Warranty	5 years				