



# NEXUS

ON-GRID INVERTER \ 50KW



**HIGH EFFICIENCY** Up to 98.7% conversion efficiency with transformerless design.



**MPPT Optimized power tracking** with four independent MPPTs.



**WIDE VOLTAGE RANGE MPPT** operating range: 180V - 1100V.



**SMART COOLING** Intelligent fan cooling for enhanced performance.



**SAFETY FIRST** Built-in DC switch, surge protection and insulation monitoring.



**GRID STABILITY** Supports low/high voltage ride-through (LVRT & HVRT).



**Solarman Smart**  
for enduser



**Solarman Business**  
for installers and EPC



Equipped with Four MPPTs, Supporting solar panels over 600watts.



Waterproof and Dustproof Protection



Logger Stick



Smart PV Monitoring Platform

**24/7**  
AFTER SALES  
SERVICE



# TECHNICAL PARAMETERS

| MODLE NAME | CSE-N50KGT |
|------------|------------|
|------------|------------|

## INPUT

|                                   |              |
|-----------------------------------|--------------|
| Max. DC input power               | 75000W       |
| Mak. DC input Voltage             | 1100V        |
| Max. DC input current             | 40/40/20/20A |
| MPPT voltage range                | 200-1000V    |
| Recommended MPP operating voltage | 650V         |
| No. of MPPT                       | 4            |
| Max. No. of strings per MPPT      | 2            |

## OUTPUT

|                      |                                               |
|----------------------|-----------------------------------------------|
| Rated output power   | 50000W                                        |
| Max. output power    | 55KVA                                         |
| Max. output current  | 80A                                           |
| Rated grid voltage   | 400V                                          |
| Grid voltage range   | 310~480Vac                                    |
| Rated grid frequency | 50Hz/60Hz                                     |
| Grid frequency range | 45-55Hz/55-65Hz                               |
| THD                  | < 2% (Under the rated power)                  |
| Power factor         | >0.99(rated power) /0.8 leading ~ 0.8 lagging |
| DC current injection | <0.5% (Under the rated power)                 |

## SYSTEM DATA

|                            |                                |
|----------------------------|--------------------------------|
| Max. efficiency            | 98.70%                         |
| Euro. efficiency           | 98.20%                         |
| Humidity range             | 0~100%, non-condensing         |
| Cooling type               | Intelligent forced air cooling |
| Temperature range          | -25~+60°C                      |
| Power consumption at night | <1W                            |
| Max. working altitude      | 4000m                          |
| Display                    | LED (optional: LCD)            |
| Communication interface    | RS485/Wifi/GPRS(optional)      |

## PROTECTION

|                                  |     |
|----------------------------------|-----|
| DC reverse-polarity protection   | Yes |
| Short circuit protection         | Yes |
| Output over current protection   | Yes |
| Output over voltage protection   | Yes |
| Residual current detection       | Yes |
| Surge protection                 | Yes |
| Grid monitoring                  | Yes |
| Islanding protection             | Yes |
| Temperature protection           | Yes |
| Integrated DC switch             | Yes |
| Insulation resistance monitoring | Yes |

## MECHANICAL DATA

|                  |               |
|------------------|---------------|
| Dimensions (WHD) | 610x564x218mm |
| Weight           | 37kg          |
| Protection class | IP66          |

## STANDARD

|                              |                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Safety standard/EMC standard | NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221 (BIS)                                                                         |
| Grid-connected standard      | IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140 IEC61683, IEC62116, EN50530, IEC60068 |