CROWN
SOLAR ENERGY



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).

- Equipped with Four MPPTs, Supporting solar panels over 600watts.
- IP66 Waterproof and Dustproof Protection


Logger Stick


Smart PV Monitoring Platfrom

Solarman Smart for enduser

Solarman Business for installers and EPC

24/7 AFTER SALES SERVICE

CROWN EASY REPLACEMENT WARRANTY

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, Ordinace No.140 IEC61683, IEC62116, EN50530, IEC60068