



NEXUS

CSE-N6K48VP1 \ CSE-N8K48VP1 \ Hybrid Inverter



HF ISOLATION PROTECTION ensures electrical safety by isolating the battery from high voltage or fault currents using high-frequency transformers.



BENEFITS OF 2 TIMES PV POWER OVERSIZING PV power up to 2 times the inverter rating maximizes energy yield, ensures optimal inverter performance and compensates for panel inefficiencies or degradation.



PROTECTION OVC II is for equipment handling moderate surges in AC circuits, while OVC III is for equipment handling higher surges in DC circuits.



PARALLEL OPERATION A maximum of 6 units can be connected in parallel for on-grid and off-grid operation.



PERIODIC USAGE 6 time periods for battery charging/discharging.



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



Waterproof and Dustproof Protection



Logger Stick



Smart PV Monitoring Platform



Solarman Smart
for enduser



Solarman Business
for installers and EPC



TECHNICAL PARAMETERS

MODE NAME	CSE-N6K48VP1	CSE-N8K48VP1
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BATTERY INPUT DATA

Battery type	Lithium or lead acid battery	
Rated battery voltage	48V	
Maximum charging voltage	60 (Configurable)	
Maximum charge/discharge current	120A	190A

PV INPUT DATA

Maximum DC input power	12kW	16000W
Maximum DC input voltage	500V	
MPPT operating voltage range	150-450V	
Starting voltage	125V	
Maximum input current	18/18A	30/18A
MPPT number	2	

AC OUTPUT PARAMETERS (ON-GRID)

Maximum output apparent power	6600W	88000W
Rated output voltage	220/230V	
Rated output frequency	50/60Hz	
Max output current	27A	40A
Output power factor	1 (-0.8 leading~+0.8 lagging)	

AC OUTPUT PARAMETERS(OFF-GRID)

Rated output apparent power	6000W	8000W
Maximum output apparent power	>200%,15sec	
Rated output voltage	230V	220/230V
Rated output frequency	50/60Hz	
Max output current	27A	40A

EFFICIENCY

Max efficiency	97.6%	98%
Max efficiency	94.5%	
Europe efficiency	97.5%	

PROTECTION

PV input reverse polarity protection	Yes
PV insulation resistance detection	Yes
Residual current detection	Yes
Output over current protection	Yes
Output short circuit protection	Yes
Output over voltage protection	Yes

BASIC DATA

Operation temperature	-25°C~60°C (frequency-decreasing above 45°C)
Storage temperature	-30~65°C
Relative humidity	0~95%
Working altitude	4000m (frequency-decreasing above 2000m)
Cooling	Intelligent forced air cooling
Noise	<55db
Weight	20kg
Dimensions (W*H*D)	198*427*554mm
Protection class	IP66
Topology	HF isolation (Battery side)
Communication Interface	CAN/RS485

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
Other standard	OVE-Richtlinie R25, UNE217001/2, Ordinance No.140

IEC61683, IEC62116, EN50530, IEC60068