



NEXUS

CSE-8KW-12KW P3 \ 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 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 Maximum 6 unit parallel for on grid and off grid operation.



100% UNBALANCED OUTPUT supports uneven load distribution across phases for reliable, uninterrupted performance.



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

24/7
AFTER SALES
SERVICE



TECHNICAL PARAMETERS

MODLE NAME		CSE-N8K3P	CSE-N12K3P
Battery Input Data			
Battery Type	Lithium or lead acid battery		
Rated Battery Voltage	48V		
Maximum Charging Voltage	≤60 (Configurable)		
Maximum Charge/Discharge Current	190A	250A	
PV Input Data			
Maximum DC Input Power	16000W	24000W	
Maximum DC Input Voltage	1000V		
MPPT Operating Voltage Range	200~800V		
Starting Voltage	150V		
Maximum Input Current	18/18A	36/18A	
MPPT Number	2		
AC Output Parameters (On-Grid)			
Maximum Output Apparent Power	8800W	13200W	
Rated Output Voltage	380/400V		
Rated Output Frequency	50/60Hz		
Max Output Current	13.3A	20A	
Output Power Factor	1 (-0.8 leading~+0.8 lagging)		
AC output parameters(Off-Grid)			
Rated Output Apparent Power	8800W	12000W	
Maximum Output Apparent Power	>200%,15sec		
Rated Output Voltage	380/400V		
Rated Output Frequency	50/60Hz		
Max Output Current	13.3A	20A	
Efficiency			
Max efficiency	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	38kg		
Dimensions (W*H*D)	475*683*256mm		
Protection class	IP66		
Topology	HF isolation(Battery side)		
Basic data			
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		
Other standard	IEC61683, IEC62116, EN50530, IEC60068		