CROWN
SOLAR ENERGY

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 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-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, Ordinace No.140	
Other standard	IEC61683, IEC62116, EN50530, IEC60068	