CROWN
SOLAR ENERGY

NEXUS

AEP-8KS48P \ Hybrid Inverter

POWERFUL CHARGING CAPABILITY
Supports up to 120A battery charge and discharge current for optimal performance.

INSTANTANEOUS PEAK POWER
Delivers off-grid peak power at twice the rated capacity for up to 15 seconds.

SEAMLESS TRANSITION
Ensures an uninterrupted power supply with switching capabilities within just 10 seconds.

FLEXIBLE BATTERY COMPATIBILITY
Compatible with both lead-acid and lithium batteries, offering cost-effective solutions tailored to various market needs.

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TECHNICAL PARAMETERS

Modle Name	AEP-8KS48P
Battery Input Data	
Battery type	Lithium or lead acid battery
Rated battery voltage	48V
Maximum charging voltage	≤60 (Configurable)
Maximum charge/discharge current	190A
PV input data	
Maximum DC input power	16000W
Maximum DC input voltage	500V
MPPT operating voltage range	150~450V
Starting voltage	125V
Maximum input current	30/18A
MPPT number	2
AC output parameters (On-Grid)	
Maximum output apparent power	88000W
Rated output voltage	220/230V
Rated output frequency	50/60Hz
Max output current	40A
Output power factor	1 (-0.8 leading~+0.8 lagging)
AC output parameters(Off-Grid)	
Rated output apparent power	8000W
Maximum output apparent power	>200%,15sec
Rated output voltage	220/230V
Rated output frequency	50/60Hz
Max output current	40A
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	20kg
Dimensions (W*H*D)	198*427*554mm
Protection class	IP66
Topology	HF isolation (Battery side)
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	
Other standard	
IEC61683, IEC62116, EN50530, IEC60068	