



# NEXUS

AEP-6KS48P | 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.

# TECHNICAL PARAMETERS

Modle Name	AEP-6KS48P
------------	------------

## Battery Input Data

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

## PV input data

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

## AC output parameters (On-Grid)

Maximum output apparent power	6000W
Rated output voltage	220/230V
Rated output frequency	50/60Hz
Max output current	27A
Output power factor	1 (-0.8 leading-+0.8 lagging)

## AC output parameters(Off-Grid)

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

## Efficiency

Max efficiency	97.6%
Max efficiency	94.5%
Europe efficiency	97%

## 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	Natural 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, Ordinance No.140
Other standard	IEC61683, IEC62116, EN50530, IEC60068