

ESS Series

2025

Plug-in Design

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Quick Use

Strong Support
Grade-A Battery Support

>2500
Life Cycles

Modulized
Easy Extend

Unlock 98.4% Peak Efficiency with Total Safety.

- Ultimate Efficiency: European Efficiency 97.9%
- AFCI Active Safety: Proactive Fire Prevention
- LiFePO4 Battery: Safer, 6000+ Cycles
- Simple Stack Install: Plug & Play Simplicity
- IP65 Protection: All-Weather Durability




Plug & Play


Active Safety


Efficiency


More Options

NF-ESS10-9.6LV Three Phase ESS

ESS Parameters		
Parameter	NF - PA10K04HV	NF - PA10K204HV
PV input power	19000W	
Nominal DC voltage/Voc	600Vdc	
Start - up / Mo operation voltage	180Vdc	
MPPT voltage range	150 - 920Vdc	
Max. PV input current	48A (16A×32A)	
Max. AC input power from grid	20500VA	
Rated AC output power	10000W	
Max. AC output apparent power	11000VA	
Rated / Max. AC output current	16.2A/18.7A	
AC voltage output range	270 - 480V	
Rated grid frequency	50Hz/60Hz	
Rate voltage(Vdc)	192	384
Cell combination	60S(P1)	60S(P2)
Rate capacity(AH)	50	50
Energy storage(WH)	9.6	19.2
Cycle life	25±2℃, D/C 0.5C, EOL(70%)> 6000	
Charge temperature	0℃ - 50℃@60 ± 25% Relative Humidity	
Discharge temperature	-20℃ - 50℃@60 ± 25% Relative Humidity	
IP class	IP65	
Material system	LiFePO4	
Case material	Meta	
Protocol(Optional)	RS485/RS232/ WLAN Optional	
Certificate	EN, IEC, NRS, C99, UN38.3, MSDS, CE	

