



AS1 SERIES

AS1-3KS-5.1



Flexibility in retrofitting the existing system



Built-in 5.1kWh lithium battery (extendable)



Compatible with all inverter brands



Switch time < 10ms
no harm to electrical appliance



With UPS function
no worries about power outage



Fanless design
quiet and comfortable

AS1-3KS-5.1 Datasheet

Model	AS1-3KS-5.1
Battery Parameters	
Battery Type	Lithium-iron phosphate (LiFePO4)
Total Energy Capacity [Wh]	5120
Battery Capacity [Ah]	100
Rated Voltage [V]	51.2
Voltage range [V]	42~58.4
Depth Of Discharge [DOD]	≤ 90%
Cycle Life	≥ 6000
Max.Charge Current [A]	60
Max.Discharge Current [A]	60
Scalability	Yes (up to 20.4kWh)
Grid Parameters	
Max.Continuable Output Power [VA]	3000
Max.Output Current [A]@230Vac	13.1
Rated Grid, Backup Voltage/Range [V]	220, 230, 240/180~280
Rated Grid/Backup Frequency/Range [Hz]	50, 60/±5
Power factor [cos φ]	0.8 leading~0.8 lagging
Feed-in	L+N+PE
AC Output [Back-up Mode]	
Max. Continuable Output Power [VA]	3000
Output Voltage [V]	220/230/240
Max.Output Current [A]@230Vac	13.1
Output Frequency [Hz]	50/60
Peak Output Power [VA]	3600, 10sec
General Data	
Communication Mode	Wi-Fi/ 4G/ Ethernet (Optional)
Operating Temperature Range	0°C~50°C (above 45 °C battery performance degrades)
Cooling Method	Natural Convection
Ambient Humidity	0-95% Non-condensing
Noise [dBA]	< 29
Ingress Protection	IP65
Dimensions [H*W*D][mm]	738*650*186
Weight [kg]	64
Standard Warranty [Year]	5 (Standard)/ 10 (Optional)
Applicable Standard	AS 4777.2, VDE 4105, G98, C10/C11, CEI0-21, IEC62619, IEC62040, UN38.3