



Always Connect



Single Phase Inverter

3 to 6 KW

Specification

Rated Amps	: 18A
Battery Input	: 1
Support	: LV Battery
Switch over time	: 10 ms
Inverter in Parallel	: 6
Efficiency	: 98%

Features

- Time of Use
- 150% Overloading
- Anti Islanding production
- Supports old & new battery on same inverter



Single Phase Inverter

Model Name	ESV-3-1P-HB	ESV-3.6-1P-HB	ESV-4-1P-HB	ESV-4.6-1P-HB	ESV-5-1P-HB	ESV-6-1P-HB
Off-grid Output						
Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Nominal Voltage	220V/230V/240V					
Nominal Frequency	50/60Hz					
Nominal Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
Output THDu	<2%					
On-grid Parameter						
Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Max. Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
Nominal Grid Voltage	220V/230V/240V					
Max. Input Current from Grid	16.4A	22.7A		27.2A		
Grid Voltage Range	184-276V					
Frequency Range	45-65Hz					
PVInput						
Max. Input Power	4500Wp	6000Wp		7500Wp		9000Wp
Starting Voltage	95V					
Max. Input Voltage	600V					
MPPT Voltage Range	80-550V					
Full Load MPPT Voltage Range	350-500V					
Number of MPPT	2					
Max. Input String Per MPPT	1					
Nominal Input Voltage	360V					
Max. Input Current	18A/18A					
Battery Parameter						
Battery Type	Lithium-ion					
Nominal Battery Voltage	51.2V					
Battery Voltage Range	42-58V					
Max. Charging Voltage	≤ 60V					
Max. Continuous Charging/Discharging Current	75A	85A		100A		
Efficiency						
Max. Efficiency	97.5%		97.8%		98.0%	
European Efficiency	97.2%		97.3%		97.5%	
Max. Battery Charging/Discharging Efficiency	95.2%					
General Data						
Size(W*H*D)	500mm*470mm*180mm					
Weight	21kg					
Noise	<25dB(A)					
Operating Temperature Range	-25℃~+60℃					
Cooling Method	Natural cooling					
Ingress Protection Grade	IP65					
Mornitoring	LED/APP/WIFI/4G/Bluetooth					
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port					
Protection	DC Switch, PV Insulation Resistance Detection, Residual Current Monitoring, Anti-islanding Protection, Reverse Polarity Protection(PV&Battery) AC Short Circuit Protection, AC Overcurrent Protection,AC Overvoltage Protection:LEVEL III;PV&Battery:LEVEL II, Surge Protection, Lightning Protection:TYPE II					
Warranty	5 Years					
Certification						
CE_LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2					
CE EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4					
Grid	VDE-AR-N 4105, C10-11,G98/G99, CEI 0-21, EN50549, NRS 097-2-1, AS 47772, R25,UNE217001,UNE217002,NTS 2.1					