

Euro 4.6KW~6KW Single-phase Hybrid Inverter

Features



- Flexible Rate Tariff**
 Charge from the grid at off peak when energy is cheaper, and discharge at peak timewhen energy is more expensive.
- Safe**
 Physical and electrical dual isolation AFCI function integration AC overcurrent, AC overvoltage, Over temperature. IP 65 protection grade.
- IP65 Rated**
 Engineered to last with maximum flexibility. Suitable for outdoor installation
- Supports Four Working Modes**
 1.Self Use; 2.Time of Use; 3. Backup Power; 4 Grid Priority.
- Quick Backup**
 Provides backup load with a transfer time less than 10 ms.
- 5 Years Warranty**
 Supplied with a full manufacturers warranty.



Hybrid

10 Years Design Life



GER AT ITA UK Grid Standards

Product Parameters

Model	SUNIZE ESH-EU4.6KW	SUNIZE ESH-EU5KW	SUNIZE ESH-EU6KW	
Efficiency	DC MAX Efficiency	97.50%		
	European Efficiency	97.00%		
PV	MAX Power	7000W	8000W	9600W
	MAX DC Voltage	550V		
	MPPT Voltage Range	90~500V		
	MAX Input Current of Single MPPT	16A / 16A		
	MPPT Tracker / String	2/1		
AC Output (Grid-Tied)	Grid Voltage / Range	230V / 176~270V		
	Frequency	50Hz / 60Hz		
	PF	0.8 lagging~0.8 leading		
	THDi	<3%		
Battery	AC Output Topology	L+N+PE		
	Battery Voltage Range	40~58V		
	Max Charging Voltage	58V		
	MAX Charge/Discharge Current	100A / 110A		
UPS Output	Battery Type	Li-ion / Lead-acid		
	Rated Power	4600W	5000W	6000W
	Rated Output Voltage	220V / 230V / 240V		
	Rated Output Current	19.1A / 20A / 20.9A	20.6A / 21.7A / 22.7A	25A / 26A / 27.2A
	Rated Frequency	50Hz / 60Hz		
	Transfer Time	<10ms		
	THDU	<2%		
Protection	Overload Capacity	110%, 30S / 120%, 10S / 150%, 0.02S		
	Anti-island Protection	Yes		
	DC Overcurrent Protection	Yes		
	Insulation Monitoring	Yes		
	Residual Current Monitoring	Yes		
	Arc Fault Protection	Yes (Optional)		
	Battery Reverse Polarity Protection	Yes		
	Parallel Function	Yes (Up to 12 Units)		
General Parameter	Other protection	AC overcurrent, AC overvoltage, Overtemperature Protecion		
	Degree of Protection	IP65		
	Operation Temperature	-25°C~60°C		
	Cooling	Natural Cooling		
	Relative Humidity	0%~95% (Non-condensing)		
	Altitude	(Derating occurs when >2000m)		
	Dimensions (W*D*H)	480*210*495mm		
Display & Communication	Net Weight	Approx. 24.5kg	Approx. 25kg	
	Isolation Transformer	No		
	Self-consumption	<5W		
	Display	LCD		
Certification	Safety Standard	EN/IEC 62109-1, EN/IEC 62109-2		
	Warranty	5 Years		
CE-EMC/ENIEC 61000-6-3:2021, ENIEC61000-6-1-2019, CEVOC/IEC 62109-1-2010, IEC62109 -2:2011, IEC 62477-1:2022 COC/VDE4105:2018, VDE0124:2020;COC/CE10-21:2022, COC/ TORTvpeA/ B:2022, OVER25:2020;G98:2022, G99:2022				