



IESP 50~60kW

Three-Phase Hybrid Solar Storage Inverter

- 4 independent MPPT trackers, compatible with high-power PV modules
- DC over-sizing up to 1.6x
- Ultra-wide battery voltage range (150~820Vdc)
- Battery charge/discharge current 80A*2
- Max. AC grid-connected overload output of 1.1x
- 100% three-phase unbalanced load
- Supports diesel generator input
- DC arc fault detection
- AC/DC Surge Protection (Level II)
- IP65 waterproof protection degree

ABOUT SRNE

- SRNE 16 years in PV industry, committed to independent R&D and production.
- Holds over 200 patents in energy storage, with unique industry-leading technologies.
- Chooses top-quality international components to deliver high-value products to customers.
- Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

Model	IESP500SH3	IESP550SH3	IESP600SH3
AC OUTPUT			
Rated Output Power	50000W	55000W	60000W
Max. Apparent Power	60000VA	60500VA	66000VA
Peak Power (off-grid)	1.6 times of rated power, 10s		1.5 times of rated power, 10s
Rated Output Voltage	220/380Vac, 230/400Vac (3L+N+PE)		
Rated Output Current	72.2Aac	79.4Aac	86.6Aac
Max. Output Current	86.6Aac	87.4Aac	95.3Aac
Load Motor Capacity	21HP	23HP	25HP
Power Factor	0.8 leading to 0.8 lagging		
THDI	<3% (of nominal power)		
Rated Frequency	50/60Hz ±0.3Hz		
Switch Time	10ms (typical value)		
Waveform	Pure sine wave		
BATTERY			
Battery Type	Lithium-ion Battery		
Number of Battery Input	2		
Battery Voltage Range	150–820Vdc		
Max. Charging/Discharging Current	160A(80A+80A)		
PV INPUT			
No. Of MPPT Trackers	4		
Max. PV Access Power	100kW	110kW	120kW
Max. PV Input Power	90000W	90000W	96000W
Rated PV Input Voltage	600Vdc		
Max. PV Input Voltage	1000Vdc		
Start-up Voltage	160Vdc		
Max. PV Input Current	40A*4		
Max. Short-circuit Current	60A*4		
MPPT Operating Voltage Range	150–850Vdc		
GRID/GENERATOR INPUT			
Rated Input Phase Voltage	3L/N/PE; 220/380V; 230/400V		
Rated Input Frequency	50/60Hz		
Max. Bypass Overload Current	200A		
EFFICIENCY			
MPPT Tracking Efficiency	>99%		
Max. Efficiency	98.1%		
European Efficiency	97.6%		
GENERAL DATA			
Parallel Capacity	1~9 Units		
Dimension	622x342x1010mm	Humidity	0~100%
Weight	98kg	Cooling Method	Heat sink + intelligent fan cooling
Protection Degree	IP65	Noise	<65dB
Temperature	-40 to +60°C, >45°C Derated	Communication	RS485 / CAN / USB / Dry Contact
Warranty	5 years	External Module	Wi-Fi/4G Stick (Optional)
Certificate	EN50549, VDE4105, IEC62109-1, EC62109-2, EN61000-6-1, EN61000-6-3, FCC 15 class B		
PROTECTION			
PV Reverse Protection	Yes	Anti-Islanding Protection	Yes
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring	Yes
Output Short-Circuit Protection	Yes	Output Over-Current Protection	Yes
Over-Voltage Protection	AC type III/DC type II	Surge Protection	AC type II/DC type II