swelect
Powering the world responsibly

Energy Independence for your Larger Homes

Power your home, store surplus solar energy and use it when needed — for greater savings and reliable backup.

SWEES EN+

5-12 kW Three Phase Low Voltage **Hybrid Inverter**



BIS REGISTERED



SUGGESTED COMPATIBLE BATTERY STORAGE

SWEES ES+

5.12 kWh Wall-Mount / Floor Mount
16 kWh Floor-Mount
Scalable up to 300 kW* with 6 Units in parallel

PRODUCT FEATURES

Higher Efficiency
Maximise energy savings with minimal power loss. Advanced SiC technology delivers up to 98.2% conversion efficiency.

Wide PV Solar Input
Harvest more solar energy, even in low-light conditions. Supports 150–200% PV input power, 20 A PV input current, and 3 MPPTs for optimised solar utilisation.

Wide Voltage Range
Enjoy reliable operation despite grid fluctuations. Supports a wide AC voltage range of 185–276 V and a frequency range of 45–65 Hz.

Battery Compatibility
Add battery storage without replacing your existing battery. Supports lithium and lead-acid batteries through two independent ports.

Overload Capability
Handle sudden power surges and demanding loads with confidence. Supports 167–400% overload capacity for up to 10 seconds.

Seamless Switching
Keep essential loads running during power-source transitions. Seamless switching between available power sources helps maintain continuity of supply.

One-Stop Solution Provider For Solar & Energy Storage Projects

Celebrating 40+ years

+91 91760 01012 enquiries@swelectes.com
www.swelectes.com

Technical Specifications

Three-Phase Hybrid Inverter | 5-12 kW

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Model Name	SWEES EN+ 5K-3LD	SWEES EN+ 6K-3LD	SWEES EN+ 8K-3LD	SWEES EN+ 10K-3LD	SWEES EN+ 12K-3LD
Off-Grid Output					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA
Max. Output Current	8.3 A	10 A	13.3 A	16.7 A	20 A
Peak Power & Duration	20 kVA – 10 s*				
Rated Voltage	3/N/PE, 220/380 Vac, 230/400 Vac				
Switching Time	< 10 ms				
On-Grid Parameters					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA
Max. Output Current	8.3 A	10 A	13.3 A	16.7 A	20 A
Max. Grid Input Power	24 kVA				
THDi	< 3%				
Grid Frequency	50/60 ± 5 Hz				
PV Input					
Recommended Max. PV Installation Power	24 kWp				
Max. Input Power	20 kWp				
Max. Input Voltage	800 V				
Number of MPPT	3				
No. of Strings per MPPT	1 / 1 / 1				
MPPT Voltage Range	130 – 800 V				
Startup Voltage	140 V				
Max. Input Current	20 A / 20 A / 20 A				
Short-circuit Current	24 A / 24 A / 24 A				
Battery Parameters					
Battery Type	Lithium-ion / Lead-acid / Sodium-ion				
No. of Battery Inputs	2				
Battery Voltage Range	30 – 60 V				
Max. Charge/Discharge Current	125 A × 2				
Efficiency					
Max. Efficiency	98.2%				
European Efficiency	97.7%				
Max. Battery Charge/Discharge Efficiency	95%				
Generator Parameters					
Max. Input Current	15.1 A	18.2 A	24.3 A	30.3 A	36.4 A
Rated Output Voltage	3/N/PE, 220/380 Vac, 230/400 Vac				
Voltage Range	185 – 276 V (PN)				
General Data					
Dimensions (W × H × D)	465 × 665 × 175 mm				
Weight	36 kg				
Noise Level	< 45 dB(A)				
Operating Temperature	–25°C to +60°C (> 45°C Derating)				
Operating Altitude	4,000 m (> 3,000 m Derating)				
Cooling Type	Intelligent Air Cooling				
IP Rating	IP65				
Battery Topology	Isolation				
Communication Interface	RS485 × 1, WIFI / 4G Comm. Dongle × 1, DO × 2, DRM × 1				
HMI Mode	H5 / LED / APP / WIFI / 4G / Bluetooth				
Protection	DC Switch; OC / OV Protection; AC Short-ckt Protection; Anti-Islanding Protection; Resid. Current Detection; Insul. Resistance Detection; Surge Protection: DC Type II / AC Type II; Lightning Protection; Reverse-insertion Protection (PV & Batt.); Integrated AFCI (Opt.), PID Recovery Circuit (Opt.)				
Standards & Compliance					
Standards	IS 16221 (PART 2): 2015 / IEC 62109-2: 2011, IS 16169: 2019 / IEC 62116: 2014 and IS 17980: 2022 / IEC 62891: 2020				

**Overload output requires adequate PV and Battery Energy*

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SCAN FOR CATALOUGE