swelect
Powering the world responsibly

Smarter Energy for Uninterrupted Business Operations

Reduce diesel generator dependence, support critical operations and manage peak electricity demand with intelligent solar and battery storage solutions.

SWEES EN+

22–50 kW Three Phase High Voltage **Hybrid Inverter**



BIS REGISTERED



SUGGESTED COMPATIBLE BATTERY STORAGE

23.04 kWh High-Voltage Battery Solution

Expandable up to 276.48 kWh

PRODUCT FEATURES

Robust Grid Input
Power loads and charge batteries simultaneously. Supports 200–470% grid input power and up to 150A grid input current.

Wide PV Solar Input
Maximise solar utilisation, even in low sunlight. 150–340% PV input power, 40A PV current and 4 MPPTs.

Higher Efficiency
More power, lower energy losses. Up to 98.2% efficiency with advanced SiC technology.

Generator Compatibility with VSG function
Enjoy reliable backup when solar or grid power is insufficient. Supports up to 200% generator input, VSG function and 0 ms inverter-to-diesel-generator switchover.

Scalable Power Expansion
Expand inverter capacity through a software upgrade, saving ≥80% on expansion costs while adapting to evolving power needs at every stage.

Overload Capability
Handle peak loads and unbalanced three-phase demand. Supports 160% overload capacity and 100% unbalanced three-phase output.

One-Stop Solution Provider For Solar & Energy Storage Projects

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

Celebrating 40+ years

Technical Specifications

Three-Phase Hybrid Inverter | 22-50 kW

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Model Name	SWEES EN+ 22K-3HD	SWEES EN+ 25K-3HD	SWEES EN+ 30K-3HD	SWEES EN+ 40K-3HD	SWEES EN+ 50K-3HD
Off-Grid Output					
Rated Output Power	22 kW	25 kW	30 kW	40 kW	50 kW
Max. Apparent Power	24.2 kVA	27.5 kVA	33 kVA	44 kVA	55 kVA
Rated Output Current	31.9 A	36.3 A	43.5 A	58 A	72.5 A
Max. Output Current	35.1 A	39.9 A	47.9 A	63.8 A	79.8 A
Rated Voltage	3/L/N/PE, 220/380 V, 230/400 V				
Rated Frequency	50/60 Hz				
Peak Power & Duration	150%–10 s				
GEN Input Current	150 A				
THDu	<3%				
On-Grid Parameters					
Rated Output Power	22 kW	25 kW	30 kW	40 kW	50 kW
Rated Output Current	31.9 A	36.3 A	43.5 A	58 A	72.5 A
Rated Grid Voltage	3/L/N/PE, 220/380 V, 230/400 V				
Rated Frequency	50/60 Hz				
Grid Input Current	150 A				
PV Input					
Rec. Max. Install Pwr.	93,750 Wp				
Max. Input Power	75 kWp				
Max. Input Voltage	1000 V				
Rated Voltage	600 V				
Startup Voltage	180 V				
MPPT Voltage Range	150–850 V				
Number of Strings per MPPT	4/8				
Max. Input Current	4×40 A				
Short-Circuit Current	4×60 A				
Battery Parameters					
Battery Type	Lithium-ion / Lead-acid / Sodium-ion				
Battery Voltage Range	140–800 V				
Max. Charge-Discharge Current	80 A × 2				
No. of Battery Inputs	2				
Max. Charge-Discharge Power	22 kW	25 kW	30 kW	40 kW	50 kW
Generator Parameters					
Max. Input Current	150 A				
Rated Voltage	3/N/PE, 220/380 Vac, 230/400 Vac				
Voltage Range	185–276 V (PN)				
Efficiency					
Max. Efficiency	98.6%				
European/CE Efficiency	97.97%				
Max. Battery Charge-Discharge Efficiency	98%				
General Data					
Dimensions (W × H × D)	850 × 550 × 295 mm				
Weight	88 kg				
Noise Level	<55 dB(A)				
Operating Temperature	–25°C to +60°C				
Operating Altitude	4000 m (>3000 m Derating)				
Operating Humidity	0–100%				
IP Rating	IP66				
Cooling Type	Intelligent Air Cooling				
HMI Mode	4G/LCD/LED/APP/WiFi/Bluetooth				
Communication Interface	RS485 × 1, Internet/WiFi/4G, DO × 2, DI × 2, AI × 1, AO × 1, DRM × 1				
DC Power	12 VDC 2 A				
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				

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SCAN FOR CATALOUGE

Ver: 18.11.26