

BOXER HF PRO

SEPL-75/80/100/125K-300

Hybrid Inverter 75–125kW | Commercial |
Three phase | HV battery | 6 MPPTs

Key features



High power & performance

200% PV oversizing, 24A per string



Advanced energy management

AI EMS, PV forecasting, ToU pricing



System integration & flexibility

Dual battery ports & parallel support



Industrial reliability & protection

IP66, C4 & dust-clearing fan



48A

Max. PV current per MPPT

100%

Unbalanced output

300A

Max. charge/discharge

Next generation hybrid power solution



Strong backup

165 kVA backup peak for 10 seconds



Grid-smart control

Accurate export control and six preset operating modes



Off-grid ready

On/off-grid operation with diesel generator and half-wave load support



Seamless switchover

<20 ms transfer and a 330A high-current contactor

Note: Other customised ratings available on request. Full specifications, certifications and warranty overleaf.

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Hybrid Inverter 75–125kW



Technical specifications

Models	SEPL-75K-300		SEPL-80K-300		SEPL-100K-300		SEPL-125K-300	
PV Side								
No. of MPP Trackers	6							
No. of Strings per MPPT	3							
Max. PV Array Power [kWp]	150		160		200		250	
Rated PV Input Voltage [V]	620							
Max. PV Input Voltage* [V]	1000*							
Start-up Voltage [V]	180							
MPPT Operating Voltage Range* [V]	160–950*							
Max. Input Current per MPPT [A]	6 x 48							
Max. Short-circuit Current per MPPT [A]	6 x 60							
Battery Side								
Battery Type	Lithium-ion							
No. of Battery Input	1 or 2							
Battery Voltage Range [V]	300–950							
Max. Charge/Discharge Power [kW]	75/75		80/80		100/100		125/125	
Max. Charge/Discharge Current [A]	300 or 150+150							
Grid Side (On-Grid)								
Rated AC Voltage [V]	3L/N/PE; 220/380V; 230/400V; 240/415V							
Rated AC Frequency [Hz]	50/60							
Rated Output Power [kW]	75.0		80.0		100.0		125.0	
Max. Output Apparent Power [kVA]	75.0		80.0		100.0		125.0	
Rated Output Current [A]	113.9/108.3/104.3		121.6/115.5/111.1		151.9/144.3/139.1		189.9/180.4/173.9	
Max. Output Current [A]	113.9		121.6		151.9		189.9	
THDi (@Rated Power)	<3%							
Power Factor	0.8 leading ... 0.8 lagging							
Rated AC Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V							
Rated AC Frequency [Hz]	50/60							
Max. Input Apparent Power** [kVA]	150.0		160.0		200.0		207.0	
Max. AC Input Current [A]	227.8		227.8		243.1		273.4	
Back-up Side (Off-Grid)								
Rated Output Voltage [V]	3L/N/PE; 220/380V; 230/400V; 240/415V							
Rated Output Frequency [Hz]	50/60							
Rated Output Power [kW]	75.0		80.0		100.0		125.0	
Rated Output Current [A]	113.9/108.3/104.3		121.6/115.5/111.1		151.9/144.3/139.1		189.9/180.4/173.9	
Peak Output Apparent Power [kVA]	165 @10s							
THDv (@Linear Load)	<3%							
On/Off-grid Switching Time	<20ms							
Efficiency								
Max. Efficiency	98.10%							
European Efficiency	97.50%		97.50%		97.60%		97.60%	
MPPT Efficiency	99.90%							
Protection								
Integrated Protection	DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection (DC: Type I+II, AC: Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection							
General Data								
Topology	Transformerless							
Dimensions (W*H*D) [mm]	1226 x 932 x 356							
Weight [kg]	164							
Cooling	Smart Fan							
Display	LED & OLED							
Communication	CAN, RS485							
Ingress Protection	IP66							
Anti-corrosion Degree	C4							
Over Voltage Category	II (PV+Battery), III (Mains)							
Operating Temperature Range [°C]	-30–60							
Relative Humidity [%]	0–100							
Max. Operation Altitude [m]	3000							
Standby Self-consumption [W]	<35							

* Max. PV input voltage is 950V, otherwise inverter will be waiting.

** Max. input apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery.

Specifications are accurate at the time of printing. Statcon Energiaa reserves the right to change data and parameters without notice.

