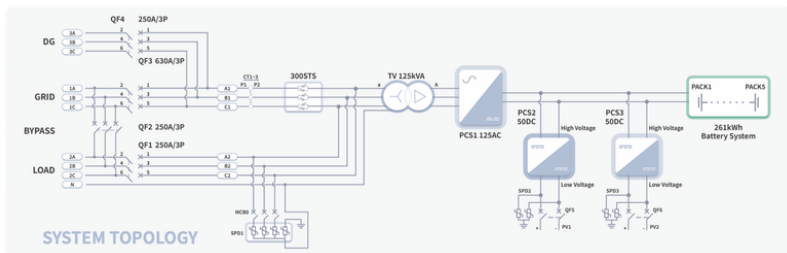


Optimus ESG-M



Key Features & Benefits



Modular & Scalable

- Supports optional PV integration, STS transfer switching, isolation transformers, and diesel generator compatibility for grid-tied, off-grid, or hybrid applications.
- Local and cloud-based monitoring with intelligent balancing and real-time alarms.
- Automatic fault detection and predictive maintenance through self-learning Remaining Useful Life (RUL) algorithms.



Reliability & Protection

- IP55-rated enclosure with high energy-density cells and >8,000 cycle lifespan.
- Advanced triple-layer fire protection with gas detection, aerosol suppression, and water-based firefighting.
- Intelligent liquid-cooling system ensures uniform cell temperatures, extending battery life and improving efficiency.

Battery Parameters	
Rated Energy Capacity	261kWh
Rated System Voltage	832V
System Voltage Range	728V~936V
Battery Type	Lithium iron phosphate battery (LFP)
Battery Configuration (Series/Parallel)	1P260S
Cell Specification	314Ah
Maximum Charge / Discharge Power	0.5P
Maximum Charge / Discharge Current	157A
PV Parameters	
PV Input Power	PV Input Power 4*50kW/60kW
PV Voltage Range	250V~500V (MPPT)
Max PV Current	160A*4
Number of MPPTs	4
AC Parameters	
Rated AC Power	125kVA
Rated AC Current	180A
Rated AC Voltage	400V, 3W+N+PE
Rated AC Frequency	50/60Hz
Total Current Harmonic Distortion (THDi)	<3% (rated power)
Power Factor	-1 leading ~ +1 lagging
Total Voltage Harmonic Distortion (THDv)	<3% (linear load)

System Parameters	
Ingress Protection Rating	IP55
Protection Level	I
Isolation (Optional, In-Cabinet)	120kVA Transformer Isolation
Power Switching (Optional, In-Cabinet)	150kW/300kW/600kW STS
Standby Power Consumption	<0.1% rated power (excluding transformer)
Display	LCD Touchscreen
Relative Humidity	0-95% (non-condensing)
Noise Level	<78dB
Operating Temperature	-25°C-60°C (derating above 45°C)
Cooling Method	Intelligent Liquid Cooling
Altitude	3000m (derating >2000m)
BMS Communication	CAN
EMS Communication	Ethernet / 485
Physical Parameters	
Dimensions (W x H x L)mm	1600*2300*1350
Fully Equipped Net Weight (kg)	3330
Warranty	10 years
Rated AC Frequency	50/60Hz
Certificates and Standards	
CB, CE, EMC, UN38.3, RoHs	