

HELIOS UE-L232



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Bringing Green Energy to Life

All-in-one, efficient, and scalable energy storage solution.

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## HELIOS UE-L232 C&I Distributed Liquid Cooling Outdoor Cabinet



### Extreme safety

- The selection of lithium iron phosphate battery cells with high thermal stability.
- Pack level fire protection, explosion-proof design.
- Equipped with advanced battery management system (BMS), you can real-time monitor the working state of the battery, to ensure the safe operation of the battery, to extend battery life.

### High reliability

- PACK Protection Rating **IP67**: Waterproof, dustproof, and resistant to spray and condensation; effectively isolates external environmental impact and enhances the safety and reliability of the energy storage system's operation.

### Intelligent operation and control

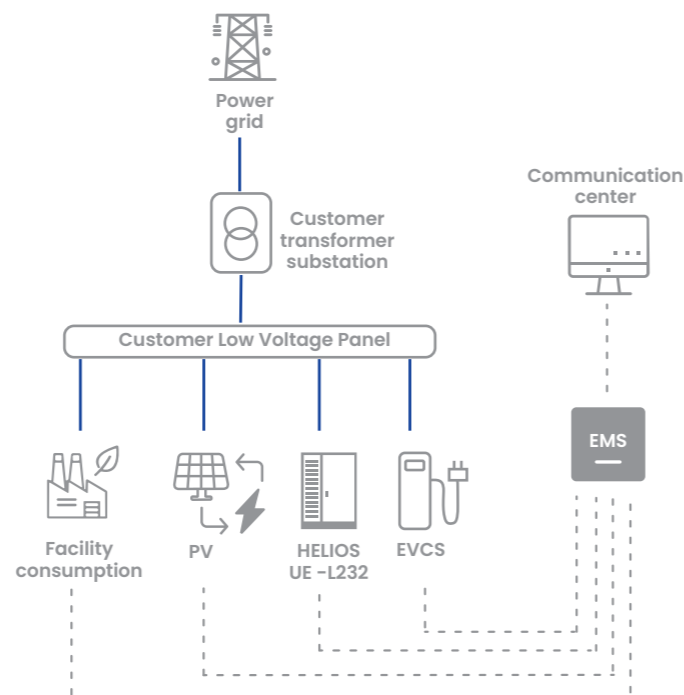
- Remote management: support online intelligent monitoring, reducing the number of manual inspections.
- Support local energy management function, with dynamic tracking and control of demand, peak shaving and valley levelling and other automated operations.

### Liquid cooling

- The main advantage of liquid cooling is its high thermal dissipation capacity, maintaining a temperature difference of only  $\leq 3^{\circ}\text{C}$ . This thermal stability optimizes the efficiency of charging and discharging processes, leading to a longer battery life.

### All-in-one AC/DC design

- Compact structure, simplified foundation, optimized construction, and fast installation. Easy connection to the **400 Vac** power grid.
- Modular design enables easy parallel installation, adaptable to various scenarios and scalable according to energy demand.



## MODEL 110 kW/232 kWh

### DC

Cell type	280 Ah (LFP)
PACK Capacity	46.6 kWh (1P52S)
System Capacity	232 kWh (1P5S)
Voltage range	728-936 Vdc
Discharge range	0.5 C
Maximum continuous charge/discharge current	168 A

### AC

Rated Power	110 kW
Maximum Operating Current	Nominal: 160 A Max: 192 A
Nominal mains voltage	400 Vac
Nominal Frequency of the Mains	50 Hz/60 Hz
Total Current Distortion Rate	< 3%
Power Factor	> 0.99
Maximum power	132kW, 1 min
Maximum PCS efficiency	98.9%

### GENERAL

Protection level	IP54
Life cycles	$\geq 8,000$
Relative humidity	5-95%
Maximum working height	2,000 m
Anti-corrosion grade	C4-H/C5-H Optional
Fire safety equipment	PERFLUORO
Operating temperature range	-20°C ~ 50°C
Cooling method	Liquid cooling (PACKs), Air cooling (Inverter)
Dimensions (W x D x H)	980*1,300*2,325 mm
Weight	3 t

### COMMUNICATIONS

Interface	Ethernet/4G
Protocol	Modbus-RTU/TCP, IEC104

### REGULATIONS

IEC 62040-1:2017, IEC 62040-1:2017/AMD1:2021, IEC 62040-1:2017/AMD2:2022  
 EN 62477-1:2012 + A11:2014 + A1:2017 + A12:2021  
 EN 62477-1:2012 + A11:2014 + A1:2017 + A12:2021  
 EN 50549-1:2019, EN 50549-10:2022, IEC 62477-1:2012+A1, EN 62477-1:2012+A11+A1+A12  
 UNE 217002:2020, UNE 217001:2020-10, IEC 62116:2014

All in one design: PCS, BATTERY, EMS,  
BMS & firefighting equipment &  
liquid coolers & power distribution.