

20-foot container microgrid energy storage system

OLP-HEIC-PV720 P500_E1205-AO

OLP-HEIC-PV720 P500_E1446-AO

The OLP-HEIC outdoor microgrid container series products highly integrate battery systems, energy storage converters, photovoltaic modules, isolation transformers, temperature control systems, fire protection systems, distribution units and energy management systems. It is an integrated comprehensive solution for photovoltaic, energy storage and diesel microgrids pre-installed in standard Marine containers. The system features extremely high flexibility and is capable of adapting to a wide range of application scenarios. It can provide reliable and continuous green power for areas without electricity or with weak power grids, such as remote mining areas, islands, factories, rural areas, etc.



PRODUCT FEATURES



Integrated integration

- The system adopts All in one design, integrating battery system, energy storage PCS, photovoltaic inverter, diesel generator interface, EMS, temperature control system, Fire protection system, distribution box device, etc.
- Build a complete microgrid system, which can be put into use quickly after photovoltaic is connected and loaded.



Flexible Deployment

- Standard 20-foot container design, high degree of modularity, simple structure.
- Strong environmental adaptability, easy installation and maintenance.



Flexible capacity expansion

- It can support up to 4 energy storage containers to operate in parallel.
- Adapt to different power and capacity requirements and be compatible with various diesel generators.
- Through can complement each other and intelligent control, to provide customers with optimal customization combination plan.



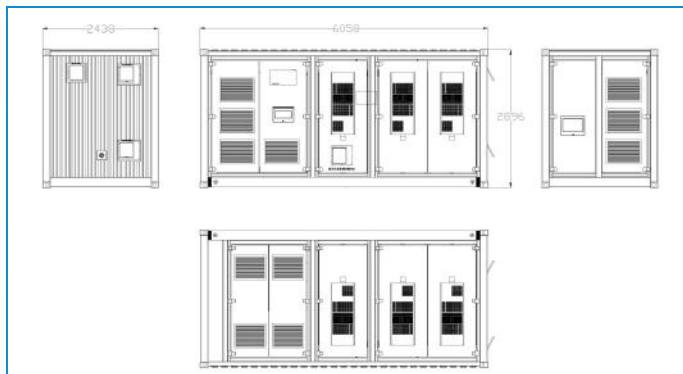
Smart Maintenance

- Full-time data monitoring and real-time perception of equipment status.
- Intelligent operation strategy to achieve automatic control of equipment.
- Cloud monitoring, real-time query of running status, active notification of fault information.

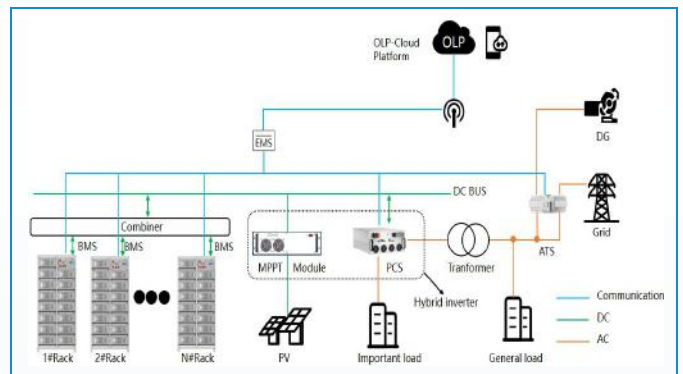
TECHNICAL PARAMETER

Model	OLP-HEIC 20-foot container microgrid energy storage system	
Battery System Parameters	Cell Type	LFP
	Cell Parameter	3.2V/314Ah
	Cell Configuration	5P240S
	Rated Energy	1205kWh
	Rated Voltage	768V
PV input Parameters	Max. PV in Put Voltage	1000V
	Max. PV Power	600/660/720kW
	No. of MPPT	10/11/12
	MPPT Voltage Range	250 ~ 850V
On-Grid output Parameters	Rated output Power	500kW
	Max. output Power	550KW
	Type of Power Grid	3W+N+PE
	Grid Volatge	400(320~460)V
	Rated output Current	722A
	Rated Grid Frequency	50(45~55)/60(55~65)Hz
	Power Factor	1leading~1lagging (Configurable)
Off-Grid output Parameters	THDi	<3%
	Rated output Power	500kW
	Max. output Power	550KW
	Rated output Voltage	400V
	Rated output Current	722A
	THDU	≤1% linear; Or ≤5% nonlinear
	Rated output Frequency	50/60Hz
System Parameters	Overload capacity	110% for a long time, 120% for 1 minute
	Thermal Management	Air-conditioner
	Fire Supression System	Perfluorohexanone, water spray
	Communication interface	CAN、RS485 etc
	DG Connection	Support
	Safety Protection System	Access Control System, Waterlogging Sensor
	Dimension(W*D*H)	20 Foot, 6058*2438*2896 mm
	Weight	20T
	IP Rating	IP54
	Working Temperature	-20~50°C
	Humidity	0~95%(No condensation)
	Latitude	≤3000m
Certification	UN38.3; IEC62619; IEC61000;IEC62040	

INSTALLATION DIMENSIONS



SYSTEM SCHEMATIC DIAGRAM



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