



**ORION OUTDOOR SERIES**  
**Orion Outdoor 241 kWh Battery Cabinet**

*Power. Storage. Security.*

-   
**6-Layer Security Architecture**
-   
**Intelligent Thermal Management**
-   
**8000 Cycle**
-   
**Industrial and Commercial Energy Storage**
-   
**Smart Energy Management**
-   
**Expandable System**
-   
**Operation Over a Wide Temperature Range**



**Orion Outdoor 241kWh**

TommaTech Orion Outdoor Series Battery Cabinet is a high-performance energy storage solution designed for commercial and industrial applications. Built for outdoor environments, it enables reliable and efficient energy storage with seamless integration into photovoltaic systems, utility grids, generators, and facility loads. Powered by advanced Lithium-Ion battery technology, the Orion Outdoor Series offers up to 8000+ charge cycle, high safety standards, and stable performance. With its durable cabinet design and scalable architecture, it provides a flexible and future-ready solution for solar projects, and commercial facilities.



## Orion Outdoor 241kWh

MAIN PARAMETERS		
Cell Type		Lithium- Ion
Module Capacity (Ah)		314
Module Nominal Voltage (Vdc)		51.2
Module Energy (kWh)		16.08
Module Qty In Series		15
System Nominal Energy (kWh)		241.15
System Usable Energy (kWh)		241.15
System Nominal Voltage (Vdc)		768
System Operating Voltage (Vdc)		600-876
Rated DC Power (kW)		121
Charge/Discharge Current (A)	Recommend	157
	Max. Continuous	180
	Peak Discharge	285
	@15s/20~45 C	
Other Parameters		
Fire Protection System	Aerosol and Water fire interface CO gas detection, Active exhaust and Explosion venting	
Cooling Method	Smart Air Cooling	
Communication Port	CAN	
Communication protocol	CAN2.0, TCP/IP	
Operating Temperature (C)	-30~55	
Recommend Storage Temperature (C)	0~35	
Humidity	5% ~ 95%RH (No Condensing)	
Altitude	3000m	
IP Protection	IP55	
Anti Corrosion Level	C4-M	
Dimension (W x D x H,mm)	1303 x 1240 x 2405.5	
Weight (kg)	2610	
Installation Location	Floor Mount	
Cycle Life	≥8000 (25±2°C,0.5P,EOL70%)	
Warranty	10 years	
Certification	UN38.3, CE, IEC, VDE, ROHS, REACH	

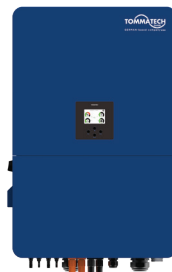


Orion Outdoor  
241kWh

+



Trio Hybrid Maxi  
30-50kW



Trio Hybrid Maxi  
60-80kW



Trio Hybrid Maxi  
100-125kW



Hera PCS 100-125K +  
Hera MPPT 200K +  
Hera STS 500K

1. Test conditions: 100% DOD, 0.5P charge and discharge at 25°C. The system's available energy may vary depending on system configuration parameters.
2. Affected by current, temperature and SOC.
3. Reduced capacity operation above 45°C.

\* TommaTech GmbH reserves the right to change the technical specifications of its products without prior notice.

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