HERA INDOOR SERIES ENERGY STORAGE SYSTEM

TOMMATECH GmbH
GERMAN-based company



Hera MPPT 200K / Hera STS 500K
Hera PCS 100-125K / Hera Indoor 16.08kWh

- Industrial and Commercial Energy Storage
- Modular and Scalable Design
- Expandable System
- Smart Energy Management
- Lithium Battery
- Long Life Cycle

STS





MPPT

PCS



TommaTech's Hera Indoor Series is a modular energy storage system designed for indoor use to meet the growing energy management needs in commercial and industrial energy storage applications. The system has been developed to provide high efficiency, flexibility, and long-term operational reliability.

Thanks to its scalable system architecture, it can be easily expanded from medium-scale projects to large-scale energy infrastructures. Integrated MPPT (Maximum Power Point Tracking), PCS (Power Conversion System), and STS (Static Transfer Switch) modules ensure efficient and uninterrupted energy flow between the grid, generators, and renewable energy sources.

The system is equipped with advanced LFP battery technology, offering high safety standards, long cycle life, and high performance. With its smart energy management, high conversion efficiency, and modular design features, the Hera Indoor Series is a reliable and sustainable energy storage solution optimized for commercial and industrial indoor applications.

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CE

	Hera MPPT 200K
PV STRING INPUT DATA	
Max. PV Input Power (kW)	200
Max. PV Input Voltage (V)	800
Start-up Voltage (V)	200
MPPT Voltage Range (V)	180–750
Full Load MPPT Voltage Range (V)	450–750
Rated PV Input Voltage (V)	600
Max. Operating PV Input Current (A)	40+40+40+40+40+40+40+40
Max. Input Short-Circuit Current (A)	60+60+60+60+60+60+60+60
No. of MPP Trackers	8
EFFICIENCY	
Max. Efficiency	99%
MPPT Efficiency	99.9%
EQUIPMENT PROTECTION	
DC input reverse protection	YES
DC ARC protection	Optional
Anti-PID (Potential Induced Degradation)	Optional
DC Switch	YES
Surge Protection Level	TYPE II
GENERAL DATA	
Ingress Protection (IP) Rating	IP65
Over Voltage Category	OVC II
Cabinet Size [W × H × D] (mm)	543x198x700
Weight (kg)	41.75
Type Of Cooling	Intelligent air cooling
Safety EMC/Standard	EN IEC 61000-6-1/2/3/4, EN IEC 61000-3-2/11, EN 61000-3-3/12, EN 55011, Low Voltage Directive EU 2014/35
DC OUTPUT DATA	
DC Output Voltage Range (V)	630–1000
Max. DC Output Current (A)	200
STS MODULE	**Hera STS 500K**
GRID/PCS SIDE DATA	
Rated AC Input/Output Active Power (kW)	500
Rated AC Input/Output Current (A)	758/725
Rated Input/Output Voltage (V)	220/380, 230/400 (three phase)
Grid Connection Form	3L/N/PE
Rated Input/Output Grid Frequency	50Hz/60Hz
LOAD SIDE DATA	
Rated Output Active Power (kW)	500
Rated Output Current (A)	758/725
Rated Output Voltage (V)	220/380, 230/400 (three phase)
Grid Connection Form	3L/N/PE
Rated Output Grid Frequency	50Hz/60Hz
GEN SIDE DATA	
Rated Input Active Power (kW)	500
Rated AC Input Current (A)	758/725
Rated Input Voltage (V)	220/380, 230/400 (three phase)
Grid Connection Form	3L/N/PE
Rated Input Grid Frequency	50Hz/60Hz
GENERAL DATA	
Off grid switching time	<20ms
Ingress Protection (IP) Rating	IP20
Over Voltage category	OVC III
Cabinet Size [W × H × D] (mm)	543x575x671
Weight (kg)	108
Type Of Cooling	Natural Cooling
Safety EMC/Standard	EN IEC 61000-6-1/2/3/4, EN IEC 61000-3-2/11, EN 61000-3-3/12, EN 55011, Low Voltage Directive EU 2014/35

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	Hera PCS 100K	Hera PCS 125K
BATTERY DATA		
Battery Type	Lithium-ion	
Battery Voltage Range (V)	630-1000	
Max. Charging Current (A)	175	200
Max. Discharging Current (A)	175	200
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
Number of Battery Input	1	
DC INPUT DATA		
DC Input Voltage Range (V)	630-1000	630-1000
Max. DC Input Current (A)	200	200
AC INPUT/OUTPUT DATA		
Rated AC Input/Output Active Power (kW)	100	125
Max. AC Input/Output Apparent Power (kVA)	110	125
Rated AC Input/Output Current (A)	151.6/145	189.4/181.2
Max. AC Input/Output Current (A)	166.7/159.5	189.4/181.2
Rated Input/Output Voltage/Range (V)	220/380, 230/400 0.85Un–1.1Un	
Grid Connection Form	3L+N+PE	
Rated Input/Output Grid Frequency/Range	50Hz/45Hz–55Hz 60Hz/55Hz–65Hz	
Power Factor Adjustment Range	-1~1	
Total Current Harmonic Distortion THDi	<3% (of nominal power)	
DC Injection Current	<0.5% In	
EFFICIENCY		
Max. Efficiency	98.5%	
Euro Efficiency	97.8%	
MPPT Efficiency	>99%	
EQUIPMENT PROTECTION		
Integrated	AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, Anti-islanding Protection, Insulation Impedance Detection, Residual Current Detection	
Surge Protection Level	TYPE II (DC), TYPE II (AC)	
INTERFACE		
LCD/LED display	LCD	
Communication Interface	WIFI, RS485, CAN, Meter	
GENERAL DATA		
Operating Temperature Range (°C)	-40°C~60°C; >45°C Derating	
Permissible Ambient Humidity	0–95%	
Permissible Altitude	4000m	
Noise	<75dB	
Ingress Protection (IP) Rating	IP65 (PCS Module)	
Cabinet Size [W x H x D] (mm)	543x310x775	
Weight (kg)	70.35	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II (DC), OVC III (AC)	
Type of Cooling	Intelligent Air Cooling	
Warranty	5 Years / 10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy	
Grid Regulation	EN IEC 61000-3-2/-3-11, EN 61000-3-3/-3-12	
Safety/EMC Standard	EN IEC 61000-6-1/-2/-3/-4, EN 55011, IEC/EN 62109-1/-2, IEC 61683, IEC 60068-2-1/-2/-14/-30, LVD 2014/35/EU	

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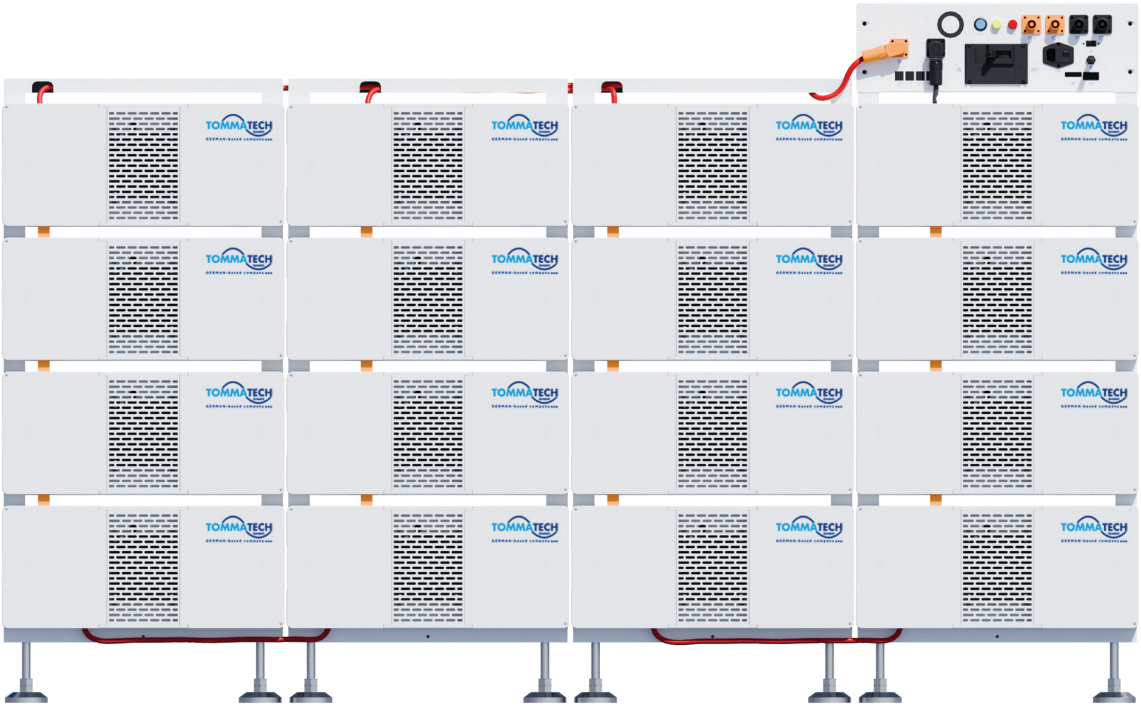

CE

	Hera Indoor 16.08kWh
MAIN PARAMETER	
Battery Module Energy (kWh)	16.08
Battery Module Nominal Voltage (V)	51.2
Battery Module Capacity (Ah)	314
Module Weight Approximate (kg)	123
Battery Module Qty in Series (Optional)	15
Scalability	14–16 units for PCS on-grid applications 15–16 units for PCS off-grid applications 5–15 units for hybrid inverter systems
System Nominal Voltage (V)	768
System Energy (kWh)	241.15
System Usable Energy (kWh)	217.04
Max. Charge/Discharge Current (A)	180
OTHER PARAMETER	
Operating Temperature (°C)	Charge: 0 ~ 55 Discharge: -20 ~ 55
Storage Temperature (°C)	0 ~ 35
Thermal Management	Smart fan cooling
LCD Display	SOC / Fault Code
Status Indicator	Yellow : Battery High Voltage Power On Red : Battery System Alarm
Communication Port	TCP / RS485 / CAN
Communication with BMS	CAN
Humidity	5% ~ 85%
Altitude	≤3000 m
IP Rating of Enclosure	IP20
Noise (dB)	TBD
System Dimension (W × H × D, mm)	2150 × 1136 × 800
System Weight Approximate (kg)	1850
Installation Location	Rack Mounted
Recommend Depth of Discharge	90%
Cycle Life	25 ± 2°C, 0.5C / 0.5C, EOL70% ≥ 6000
Warranty Period	10 years
Certification	CE / IEC62619 / IEC62040 / UN38.3 / EN IEC 61000-61/2/3/4

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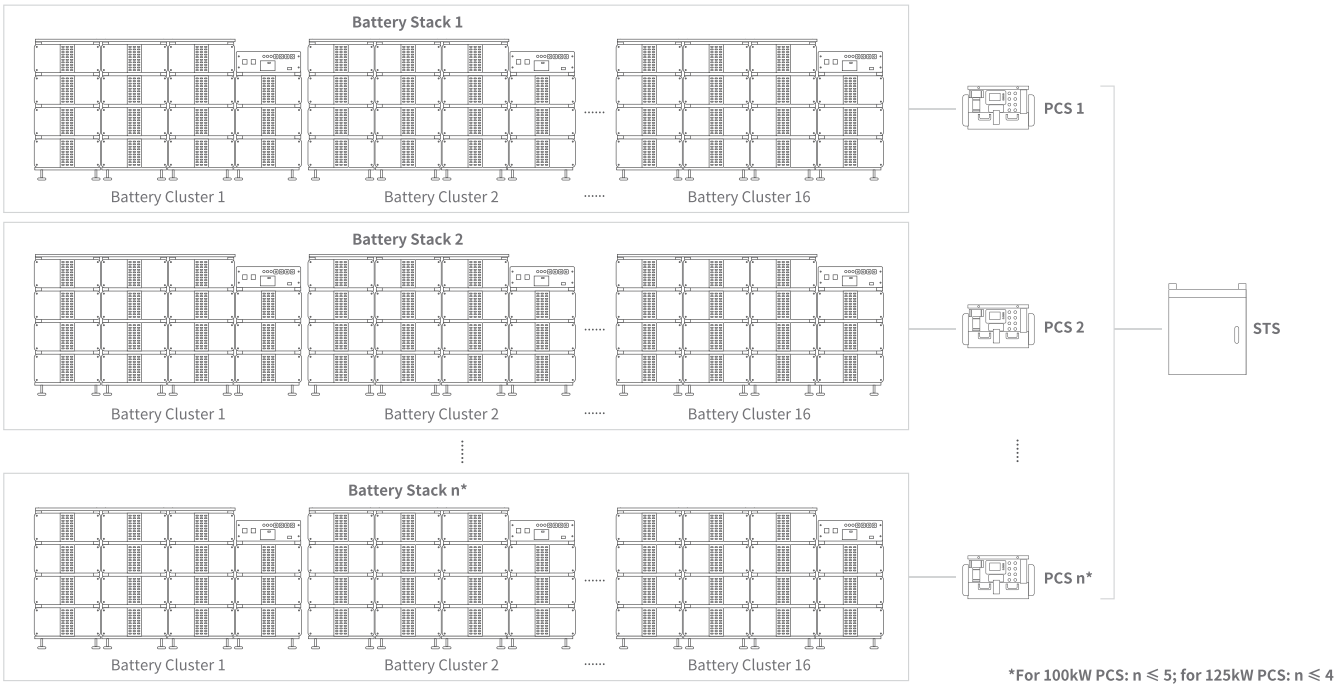
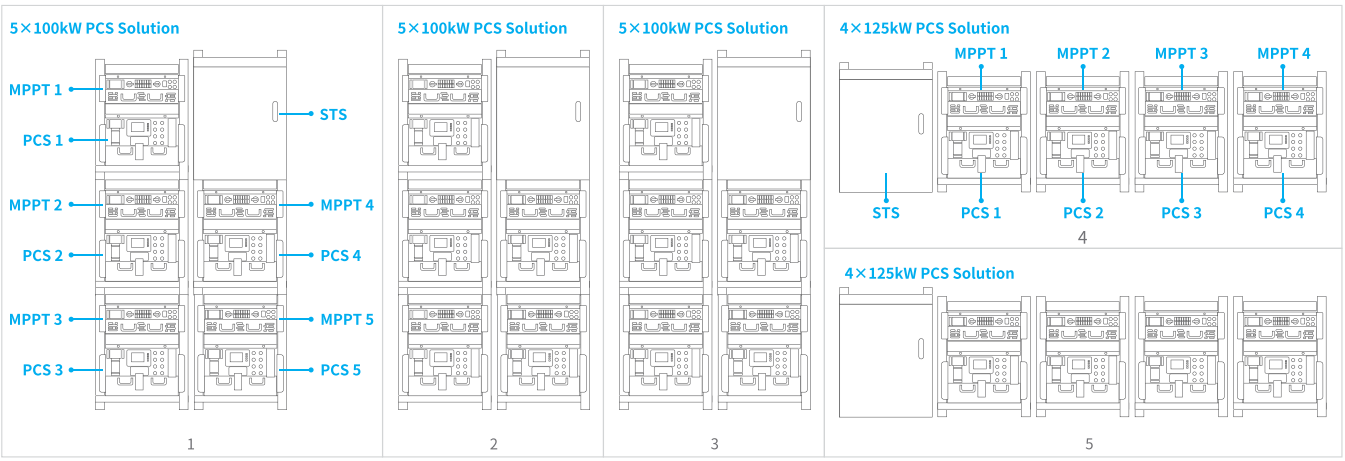
TYPICAL APPLICATION SCENARIOS

A PCS can support up to 16 battery racks connected in parallel.

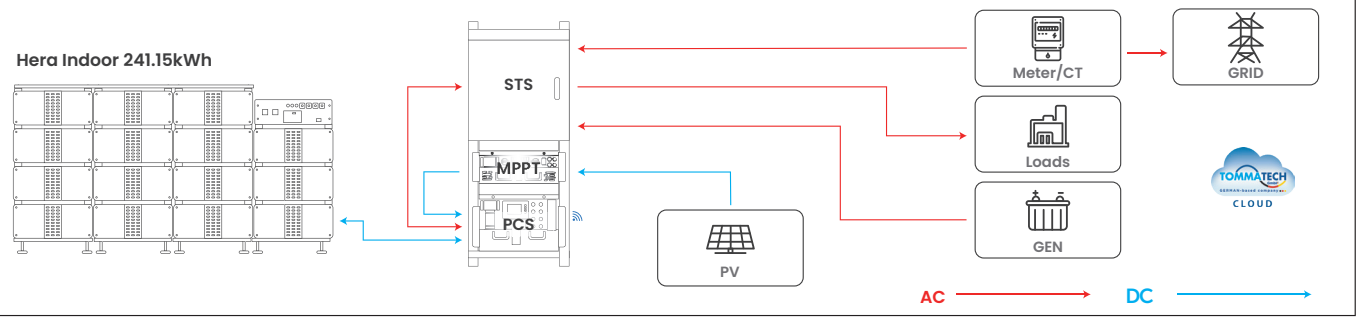


*For 100kW PCS: n ⩽ 5; for 125kW PCS: n ⩽ 4

An STS module can be connected to five 100 kW PCS modules or four 125 kW PCS modules in parallel operation.



Up to five STS modules can be connected in parallel to form a 2.5 MW system.



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