

American Energy Storage Innovations, Inc.

Presents
TeraStor™

Ultra-high density large-scale energy storage

- ✓ Easy to purchase
- ✓ Easy to install
- ✓ Easy to operate
- ✓ Easy to maintain

7.2
MWh
AC CP/4



7.0
MWh
AC CP/2

300
MWh
per Acre

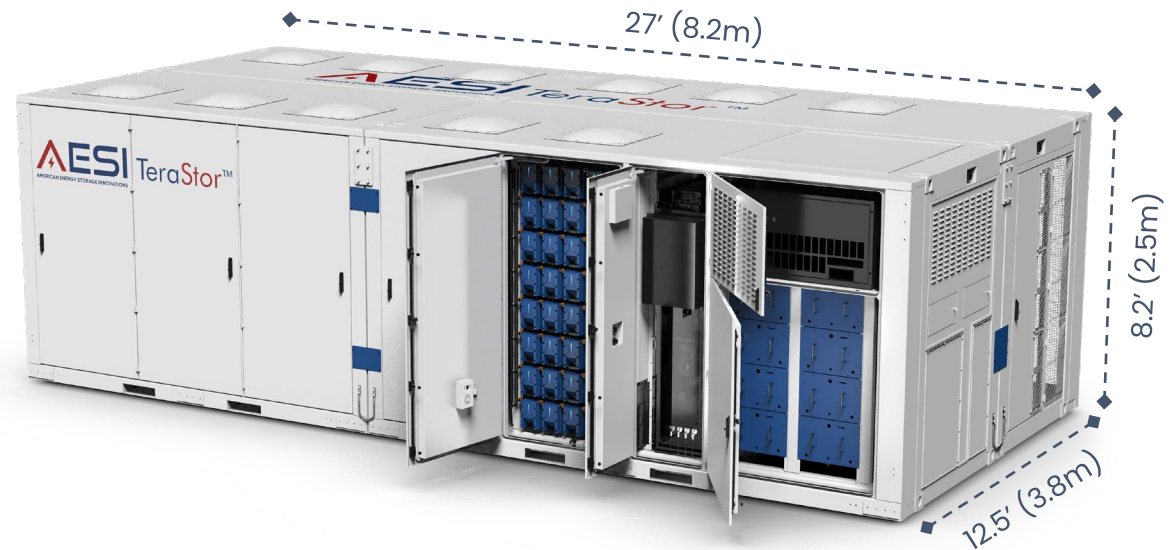
* 600 MWh per acre if double stacked



TeraStor™ 7200 Series

All-in-one, energy-dense TeraStor is factory-integrated and tested, arriving on-site and ready for commissioning in less than six hours. With an industry-low number of install connections, the self-powered, self-cooled, and self-managed unit significantly reduces on-site installation and O&M costs.

Under the hood, TeraStor's unique architecture significantly reduces the number of parts and potential points of failure compared to any other solution on the market.



2 Cabot Rd, Hudson, MA 01749, USA
www.aesi-ess.com



TeraStor™

Specifications

TS 7200

ALL-IN-ONE factory-installed supercells, PCS, circuitry, cooling & control

7200 Series



POWER / ENERGY

Cells	280 Ah x 18P
Watt-hours per supercell	16,300 Wh
DC Voltage	2.5-3.6V

AC Energy*	7.2 MWh
CP/4	7.0 MWh
CP/2	
AC Output Power	0.45-3.51 MVA
AC Output Voltage	740 VAC 3ph
Aux Power	Self-powered

MECHANICAL

Dimensions (H x W x L) mm	266 x 225 x 1422
Certification & Testing	UL1973, UN38.3, UL9540A
Density	190 Wh/L

Dimensions (H x W x L) F	8.2' x 12.5' x 27'
Certification & Testing	UL9540, UL9540A
IP Rating	IP66
Heating & Cooling	Integrated, factory-installed

MANAGEMENT

Battery Management	Redundant voltage/temp. sensing/balancing
External Interface	Wireless uplink
Thermal	Liquid cooled

Energy Management System	StorView integrated, VSP technology
Applications, Operating Modes	Many available in StorView standard configuration
External Interface	Fiber-optic ethernet
Warranty	5 yr incl. prev. maint. (up to 20 yr avail.)

* Delivered Energy @POI depends on efficiency rating of equipment installed between TeraStor AC output and the POI.



TeraStor™

Specifications

TS 7200 with CAB1000

TeraStor with CAB 1000 external PCS

7200 Series



POWER / ENERGY

Cells	280 Ah x 18P
Watt-hours per supercell	16,150 Wh
DC Voltage	2.5-3.4V

AC Energy*	7.0 MWh
CP/4	6.8 MWh
CP/2	
AC Output Power	1.50-3.38 MVA
AC Output Voltage	690 VAC 3ph
Aux Power	Self-powered

MECHANICAL

Dimensions (H x W x L) mm	266 x 225 x 1422
Certification & Testing	UL1973, UN38.3, UL9540A
Density	188 Wh/L

Dimensions (H x W x L) F	8.2' x 12.5' x 27'
Certification & Testing	UL9540, UL9540A
IP Rating	IP66
Heating & Cooling	Integrated, factory-installed

MANAGEMENT

Battery Management	Redundant voltage/temp. sensing/balancing
External Interface	Wireless uplink
Thermal	Liquid cooled

Energy Management System	StorView integrated, VSP technology
Applications, Operating Modes	Many available in StorView standard configuration
External Interface	Fiber-optic ethernet
Warranty	5 yr incl. prev. maint. (up to 20 yr avail.)

* Delivered Energy @POI depends on efficiency rating of equipment installed between TeraStor AC output and the POI.



TeraStor™

Specifications

TS 7200 DC

DC-only option for customers, no PCS

7200 Series



POWER / ENERGY

Cells	280 Ah x 18P
Watt-hours per supercell	16,150 Wh
DC Voltage	2.5-3.4V

DC Energy *	
CP/4	7.1 MWh
CP/2	6.9 MWh
DC Power	
CP/4	1.825 MW
CP/2	3.65 MW
DC Output Voltage	1,500V
Aux Power	690 VAC 3ph up to 15kW

MECHANICAL

Dimensions (H x W x L) mm	266 x 225 x 1422
Certification & Testing	UL1973, UN38.3, UL9540A
Density	188 Wh/L

Dimensions (H x W x L) F	8.2' x 12.5' x 27'
Certification & Testing	UL9540, UL9540A
IP Rating	IP66
Heating & Cooling	Integrated, factory-installed

MANAGEMENT

Battery Management	Redundant voltage/temp. sensing/balancing
External Interface	Wireless uplink
Thermal	Liquid cooled

Energy Management System	StorView integrated, VSP technology
Applications, Operating Modes	Many available in StorView standard configuration
External Interface	Fiber-optic ethernet
Warranty	5 yr incl. prev. maint. (up to 20 yr avail.)

* Delivered Energy @POI depends on efficiency rating of equipment installed between TeraStor AC output and the POI.
 * Requires external auxiliary power source.

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- ✓ Easy to purchase
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- ✓ Easy to operate
- ✓ Easy to maintain

7.9
MWh
AC CP/4



7.7
MWh
AC CP/2

330
MWh
per Acre

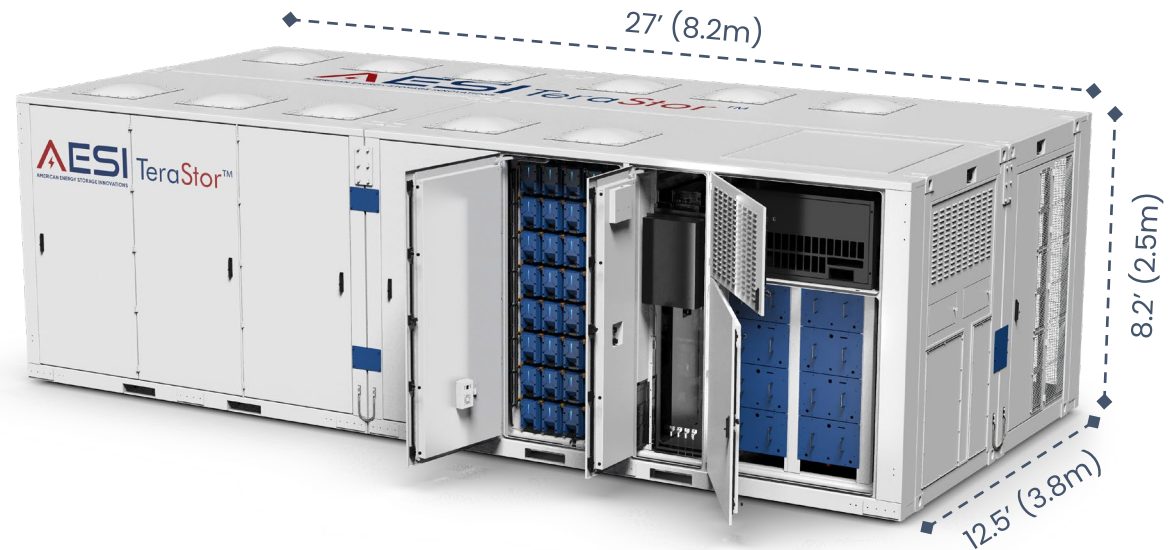
* 660 MWh per acre if double stacked



TeraStor™ 8000 Series

All-in-one, energy-dense TeraStor is factory-integrated and tested, arriving on-site and ready for commissioning in less than six hours. With an industry-low number of install connections, the self-powered, self-cooled, and self-managed unit significantly reduces on-site installation and O&M costs.

Under the hood, TeraStor's unique architecture significantly reduces the number of parts and potential points of failure compared to any other solution on the market.



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TeraStor™

Specifications

TS 8000

ALL-IN-ONE factory-installed supercells, PCS, circuitry, cooling & control

8000 Series



POWER / ENERGY

Cells	314 Ah x 18P
Watt-hours per supercell	18,100 Wh
DC Voltage	2.5-3.6V

AC Energy*	7.9 MWh
CP/4	7.7 MWh
CP/2	
AC Output Power	0.45-3.6 MVA
AC Output Voltage	740 Vac 3 ph.
Aux Power	Self-powered

MECHANICAL

Dimensions (H x W x L) mm	266 x 225 x 1422
Certification & Testing	UL1973, UN38.3, UL9540A
Density	213 Wh/L

Dimensions (H x W x L) F	8.2' x 12.5' x 27'
Certification & Testing	UL9540, UL9540A
IP Rating	IP66
Heating & Cooling	Integrated, factory-installed

MANAGEMENT

Battery Management	Redundant voltage/temp. sensing/balancing
External Interface	Wireless uplink
Thermal	Liquid cooled

Energy Management System	StorView integrated, VSP technology
Applications, Operating Modes	Many available in StorView standard configuration
External Interface	Fiber-optic ethernet
Warranty	5 yr incl. prev. maint. (up to 20 yr avail.)

* Delivered Energy @POI depends on efficiency rating of equipment installed between TeraStor AC output and the POI.



TeraStor™

Specifications

TS 800 DC

DC-only option for customers, no PCS

8000 Series



POWER / ENERGY

Cells	314 Ah x 18P
Watt-hours per supercell	18,100 Wh
DC Voltage	2.5-3.4V

DC Energy *	
CP/4	7.9 MWh
CP/2	7.7 MWh
DC Power	
CP/4	1.83 MW
CP/2	3.65 MW
DC Output Voltage	1,500V
Aux Power	690 VAC 3ph up to 15kW

MECHANICAL

Dimensions (H x W x L) mm	266 x 225 x 1422
Certification & Testing	UL1973, UN38.3, UL9540A
Density	211 Wh/L

Dimensions (H x W x L) F	8.2' x 12.5' x 27'
Certification & Testing	UL9540, UL9540A
IP Rating	IP66
Heating & Cooling	Integrated, factory-installed

MANAGEMENT

Battery Management	Redundant voltage/temp. sensing/balancing
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