

# 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

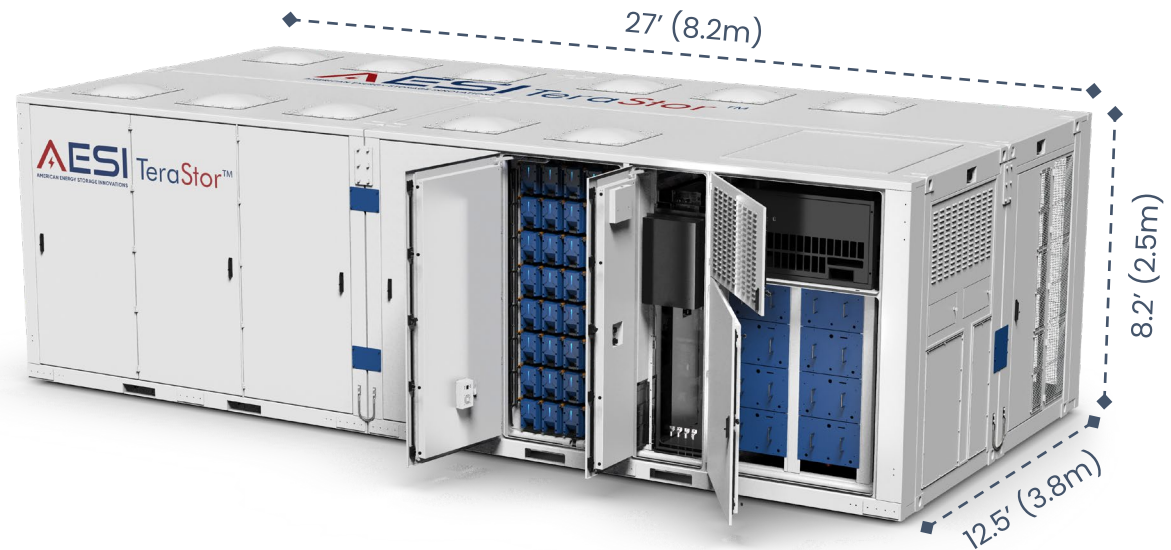
\* 600 MWh per acre if double stacked



## 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

<b>Cells</b>	280 Ah x 18P
<b>Watt-hours per supercell</b>	16,364 Wh
<b>DC Voltage</b>	2.5-3.6V

<b>AC Energy*</b>	7.2 MWh
CP/4	7.0 MWh
CP/2	
<b>AC Output Power</b>	0.45-3.6 MVA
<b>AC Output Voltage</b>	740 VAC 3ph
<b>Aux Power</b>	Self-powered

#### MECHANICAL

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

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

#### MANAGEMENT

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

<b>Energy Management System</b>	StorView integrated, VSP technology
<b>Applications, Operating Modes</b>	Many available in StorView standard configuration
<b>External Interface</b>	Fiber-optic ethernet
<b>Warranty</b>	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 7000 E

TeraStor with CAB 1000 external PCS

7200 Series



AESI  
supercell



## POWER / ENERGY

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

<b>AC Energy*</b>	
<b>CP/4</b>	7.0 MWh
<b>CP/2</b>	6.8 MWh
<b>AC Output Power</b>	1.50-3.4 MVA
<b>AC Output Voltage</b>	690 VAC 3ph
<b>Aux Power</b>	Self-powered

## MECHANICAL

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

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

## MANAGEMENT

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

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

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TeraStor™

# Specifications

## TS 6800

DC-only option for customers, no PCS

7200 Series



### POWER / ENERGY

<b>Cells</b>	280 Ah x 18P
<b>Watt-hours per supercell</b>	16,364 Wh
<b>DC Voltage</b>	2.5-3.4V

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

### MECHANICAL

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

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

### MANAGEMENT

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

<b>Energy Management System</b>	StorView integrated, VSP technology
<b>Applications, Operating Modes</b>	Many available in StorView standard configuration
<b>External Interface</b>	Fiber-optic ethernet
<b>Warranty</b>	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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Presents  
**TeraStor™**

Ultra-high density large-scale energy storage

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

**7.9**  
MWh  
AC CP/4



**7.7**  
MWh  
AC CP/2

**330**  
MWh  
per Acre

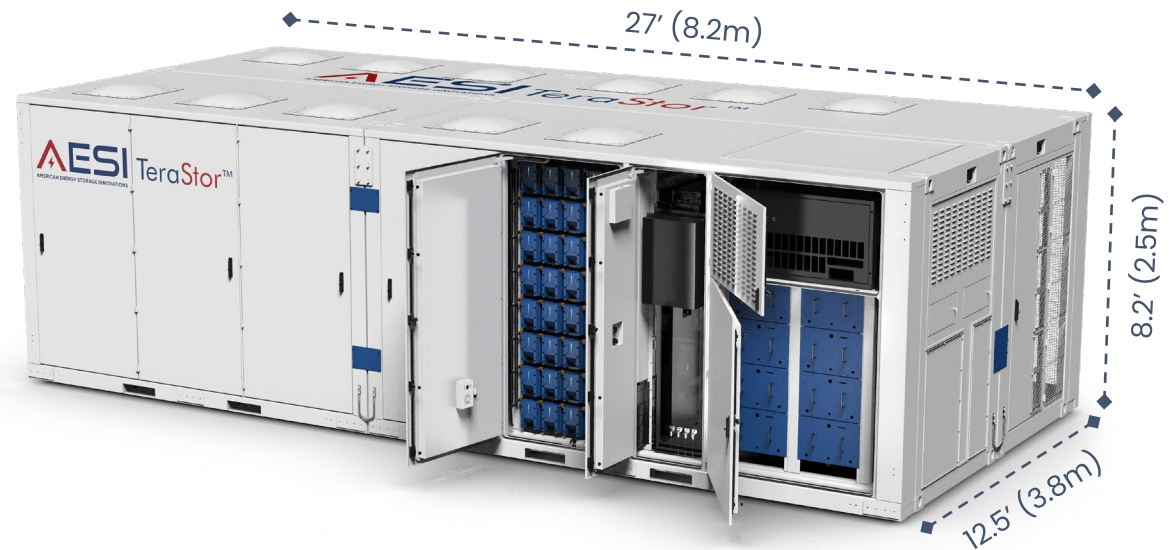
\* 660 MWh per  
acre if double  
stacked



## 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

<b>Cells</b>	314 Ah x 18P
<b>Watt-hours per supercell</b>	17,950 Wh
<b>DC Voltage</b>	2.5-3.6V

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

#### MECHANICAL

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

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

#### MANAGEMENT

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

<b>Energy Management System</b>	StorView integrated, VSP technology
<b>Applications, Operating Modes</b>	Many available in StorView standard configuration
<b>External Interface</b>	Fiber-optic ethernet
<b>Warranty</b>	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 8000 DC

DC-only option for customers, no PCS

### 8000 Series



#### POWER / ENERGY

<b>Cells</b>	314 Ah x 18P
<b>Watt-hours per supercell</b>	17,950 Wh
<b>DC Voltage</b>	2.5-3.4V

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

#### MECHANICAL

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

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

#### MANAGEMENT

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

<b>Energy Management System</b>	StorView integrated, VSP technology
<b>Applications, Operating Modes</b>	Many available in StorView standard configuration
<b>External Interface</b>	Fiber-optic ethernet
<b>Warranty</b>	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.