



## AE 250TX and AE 260TX

(Formerly known as PVP250kW and PVP260kW)

The industry standard for reliability, installability and maintainability

The AE 250TX and AE 260TX commercial inverters raise the bar for inverter reliability, ease of installation, and lifetime maintainability, while delivering best-in-class 97.0% CEC efficiency. High reliability is enabled by market-leading features including busbar power connections, a redundant cooling system, card cage circuit board design and wide operating temperature range. The highly integrated inverter saves installers time and money by including load break rated AC & DC service disconnects, neutral-free installation, oversized busbar landings and generous cable bending area with bottom and side cable entry options.

Communication interfaces, remote disable inputs, and optional 24 V auxiliary power supply are housed in a dedicated low power compartment for safe and easy access. Subcombiner fusing, a revenue grade meter, and performance monitoring gateway can be factory installed for a completely integrated inverter solution.

The AE 250TX and AE 260TX offer a wide 295-595 V operating window which maximizes energy harvest and provides exceptional stringing flexibility. AE Solar Energy inverters are engineered for reliability with more than 99% monitored fleet availability.

The AE 250TX and AE 260TX are backed with an industry-leading, 10-year, nationwide warranty and a comprehensive optional 20-year warranty; plus the most responsive service and support team in the business.



### Superior Reliability

- Redundant cooling system with Smart Air Management™
- Increased availability with >99% monitored fleet availability
- Low parts count reduces potential failure points
- Engineered busbar power connections
- Card cage circuit board system minimizes electronic interconnections

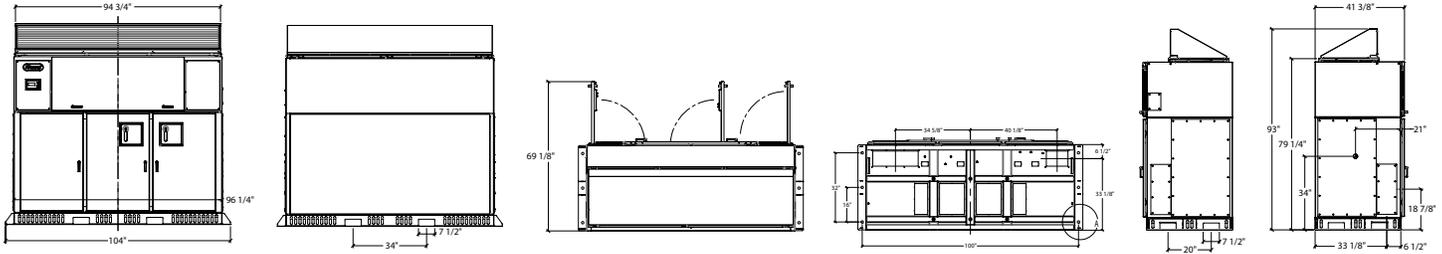
### Exceptional Installability

- Bottom and side entry with generous bending area and oversized busbar landings
- Complete range of DC subcombiner fusing options
- Exterior mounting flanges for fast and easy anchoring with no pre-drilling

### Easy to Maintain

- All maintenance and service via front and side access
- Fast change circuit board system shortens service time
- Load break rated AC and DC service disconnects
- Dedicated performance monitoring section

## Dimensions - AE 250TX and AE 260TX



## AE 250TX and AE 260TX Summary Specifications\*

Mechanical	AE 250TX	AE 260TX
Weight	5000 lbs	5000 lbs
Construction	Powder Coated Steel	Powder Coated Steel, Optional Stainless Steel
Environmental Rating	NEMA 4	NEMA 4
Mounting	Pad Mount	Pad Mount
Isolation Transformer	Integrated	Integrated
Integrated AC/DC Disconnect	included	Included
AC and DC Surge Protection	Included	Included
Electrical		
DC Inputs		
Array Configuration	Positive or negative ground	Positive or negative ground
Maximum Operating Input Current	890 A	925 A
Maximum DC Input Voltage (VOC)	600 V	600 V
MPPT Voltage Range	295-595 V	295-595 V
Open-Circuit Turn-On Voltage	330 V	330 V
AC Output		
Continuous Output Power	249.5 kW	260 kW
Nominal Voltage	480 Y, 600 Y	480 Y
Operating Voltage Range	-12% / +10%	-12% / +10%
Electrical Service Compatibility	3 phase, 4 wire, grounded Wye	3 phase, 4 wire, grounded Wye
Maximum Continuous Current	480: 304 A 600: 243 A	316 A
Short Circuit Fault Current	480: 336 Arms @ 480 VAC, 60.3 ms 600: 269 Arms @ 600 VAC, 60.3 ms	336 Arms @ 480 VAC, 60.3 ms
Nominal Frequency	60 Hz	60 Hz
Frequency Range	59.3 - 60.5 Hz, adjustable to 57.0 Hz	59.3 - 60.5 Hz, adjustable to 57.0 Hz
Total Harmonic Distortion	< 3% THD	< 3% THD
Efficiency		
Efficiency: Peak/CEC	480: 97.7% / 96.5% 600: 97.7% / 96.5%	97.7% / 97.0%
Standby Losses	< 33 W	< 33 W
Inverter Controls and Monitoring		
Power Factor	> 0.99, adjustable to 0.9 leading or lagging	> 0.99, adjustable to 0.9 leading or lagging
Communication Interfaces and Protocols	RS-485, Ethernet, Modbus, TCP/IP	RS-485, Ethernet, Modbus, TCP/IP
Environmental		
Operating Ambient Temp. Range	-30 °C to 50 °C	-30 °C to 50 °C
Standby/Storage Ambient Temp. Range	-40 °C to 60 °C	-40 °C to 60 °C
Cooling	Forced Convection	Forced Convection
Relative Humidity	0 to 95%, non-condensing	0 to 95%, non-condensing
Elevation	6000 ft	6000 ft
Noise Emission	< 65 dBA, typical at full load	< 65 dBA, typical at full load
Regulatory		
Agency Approvals / Regulatory Compliance	UL 1741, IEEE 519, IEEE 929, IEEE 1547, CSA 107.1-I, FCC Class A	UL 1741, IEEE 519, IEEE 929, IEEE 1547, CSA 107.1-I, FCC Class A
Inverter Warranty	10 Year	10 Year

## Advanced Power Controls

- Power Factor
- Curtailment
- Controlled ramp rate
- Remote enable/disable

## Options

- Integrated fused sub-array combiner with options from 4 to 20 fuses and 70 to 400 Amps
- Fused subcombiners with monitoring: 8 x 200 A, 16 x 100 A
- Integrated revenue grade meter
- Integrated data monitoring solutions
- 24 V auxiliary power supply
- Stainless Steel Enclosure
- 20-year extended warranty

## Performance Monitoring

Increase uptime and reduce maintenance costs with integrated performance monitoring hardware that enables connectivity to a variety of software solutions from industry leading monitoring partners. The tight integration between AE Solar Energy and our monitoring partners creates a superior service and support experience while seamlessly delivering meaningful data. Factory integration and testing of our UL listed monitoring solution ensures high reliability and significantly reduces field installation costs.

Subject to change without notice. Refer to user manual for detailed specification.

\*Note: Not all performance window specifications can be achieved simultaneously. Performance varies per site.

Consult your AE sales or service representatives for specific PV system design questions at [sales.support@aei.com](mailto:sales.support@aei.com).



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