



# BENTEK AC COMBINER FOR USE WITH AE 1000NX/1100NX INVERTERS

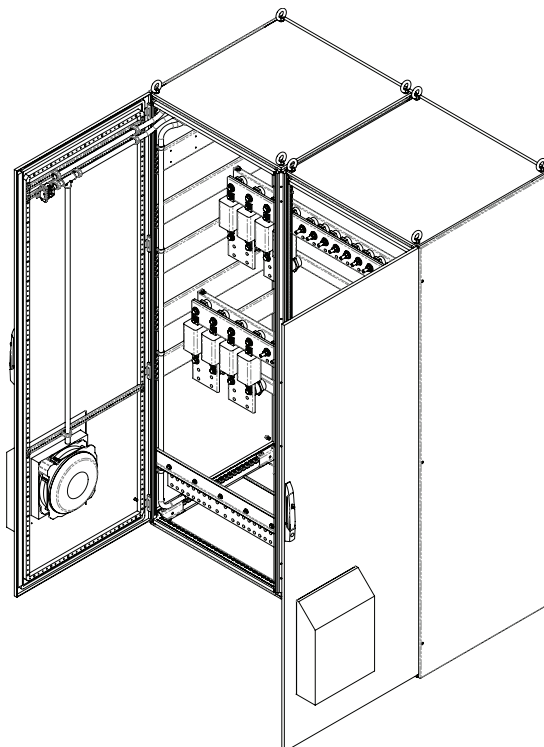
The partnership of Advanced Energy® and Bentek Solar brings you an AC fused combiner specifically designed for AE 1000NX and 1100NX inverters to enable block sizes up to 3.3 MW and broader medium-voltage (MV) transformer compatibility.

The AE 1000NX/1100NX inverter platform's unique bipolar 1000 V topology enables larger block sizes than traditionally found in utility-scale solar power plants, saving significant overall project costs. Offered exclusively through AE, the Bentek AC combiner provides cost effective AC over-current protection to combine up to 3.3 MW of inverters to a standard single-winding transformer. The AC combiner also offers a compact and economical advantage over use of standard switchgear.

### Larger AC Block Sizes Enable Significant Overall BoS Cost Savings

AE 1000NX/1100NX bipolar  $\pm 1000$  V inverters enable larger block sizes without significant increase in DC wire size, for significant cost advantages, including:

- Reduced AC wire and trenching costs
- Lower medium-voltage transformer costs
- Reduced foundation requirements and reduced crane picks for setting equipment



### Benefits

- Larger AC block sizes enable significant overall BoS cost savings
- Engineered solution guarantees technical compatibility and reduces effort for system designers.
- Single-source solution simplifies procurement and service processes.
- Cost-effective solution provides lower installed cost than systems with traditional medium-voltage switch gear.

### Features

- Combines up to three 1000NX or 1100NX inverters
- Broad range of compatibility with medium voltage transformers

## General Specifications\*

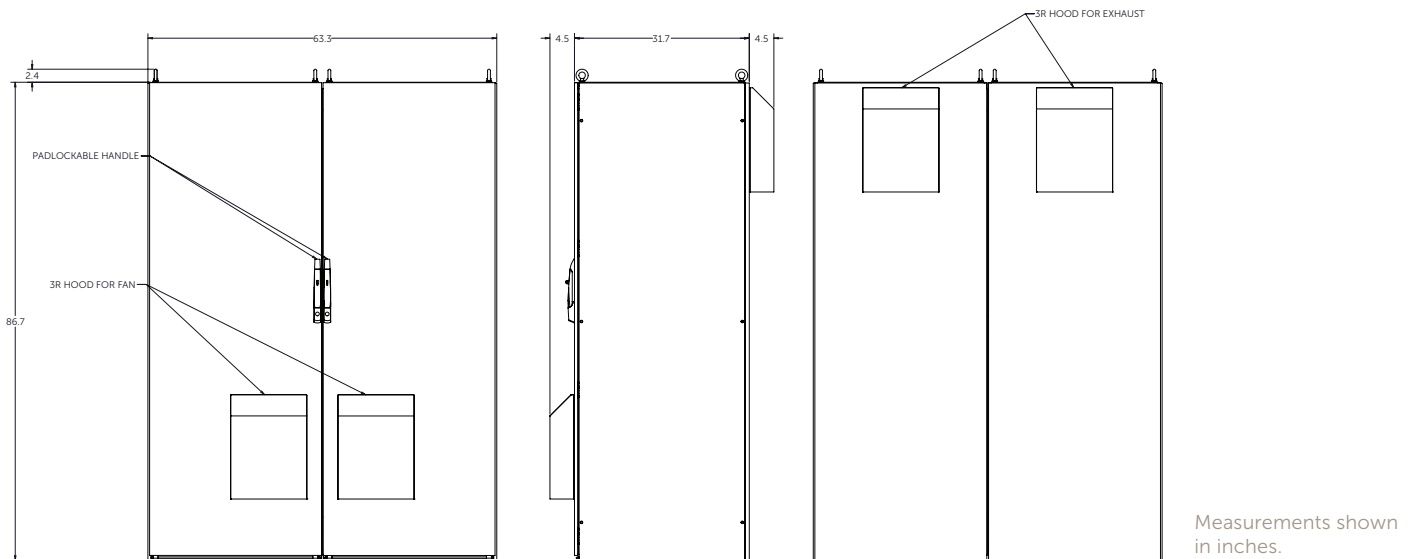
Contact AE for assistance in selecting the appropriate solution for your specific 1000NX or 1100NX installation.

	1100 kVA	2200 kVA	3300 kVA
Dimensions (Approximate)	89.5" (H) x 32.0" (W) x 32.0" (D)* 2263.5 mm (H) x 800 mm (W) x 800 mm (D)		89.5" (H) x 64.0" (W) x 32.0" (D) 2263.5 mm (H) x 1600 mm (W) x 800 mm (D)
Weight (Approximate, Unwired)	800 lb		1175 lb
Voltage	800 VAC		
Enclosure	NEMA 3R padlockable		
Bus	Plated aluminum		
AC Protection	Fused		
Maximum Operating Altitude	2000 m		
Relative Humidity Range	0 to 95%, non-condensing		
Operating Temperature Range	-20 to +50°C		
Storage Temperature Range	-20 to +70°C		
Auxiliary Power Input	120 VAC, < 6 A, 60 Hz		
Listing	UL® 1741		

\*Approximate values; not for construction. Contact AE for additional custom specifications.

### Revolutionary AE 1000NX/1100NX Utility-Scale Inverters:

- Proven NX technology platform with > 2 GW shipped
- Significant project cost savings from bipolar  $\pm 1000$  VDC topology
- Reduced DC wire costs with combiner-level PV tie
- NEC 2011 compliant DC recombiner
- Wide power factor without sacrificing kW output
- Liquid cooled for rated power at 50°C



**World Headquarters**  
1625 Sharp Point Drive  
Fort Collins, CO 80525 USA

970.221.4670 Main  
970.221.5583 Fax

[www.advanced-energy.com](http://www.advanced-energy.com)

For more information on AE 1000NX and 1100NX inverters, please visit  
[http://solarenergy.advanced-energy.com/en/AE\\_1000NX\\_1100NX.html](http://solarenergy.advanced-energy.com/en/AE_1000NX_1100NX.html)

Specifications subject to change without notice.

© 2015 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy® is a U.S. trademark of Advanced Energy Industries, Inc. UL® is a trademark of UL LLC.

ENG-AE1000NX-1100NX-BentekACRecombiner-250-01 0M 6.15