



Re: AE Inverter Grid Performance

The Advanced Energy solar inverter family 86XRXXX (a.k.a. AE 3TL) was designed for the installation and grid connection in multiple countries with different utility regulations. The 86XRXXX family consists of multiple specific versions and power classes for IEC and UL countries. All of these versions share the same design, can be installed and run on both 50Hz and 60Hz electrical grids, and can operate on various firmware versions that actuate the performance towards the grid. The grid interaction mechanisms in the firmware of the IEC and UL inverters are identical and differ only in the parameter settings which are dictated by the local utility and can only be altered by authorized technicians under the direction of the local utility.

The 861RXXX and 868RXXX are the UL versions of the 867RXXX and are labeled with a separate part numbers to distinguish the more restrictive UL certified components.

The special firmware that was created for these particular inverters makes the inverters operate when connected to the 50Hz grid. This new firmware changes the inverter operation to that of the 867RXXX.

It is my understanding that the grid performance of the purchased 861RXX and 862RXX units is essentially identical with the 867RXXX units that were previously sold and distributed by AE in Europe. Separate testing can be conducted by the installer or the regional utility to witness this performance.

Regards,

Ken Christensen

State of Colorado

County of Larimer

The foregoing instrument was acknowledged

Before me this 26th day of October

20 17 by Abigail Cornwell

Notary Public

My Commission Expires 4/18/2020

STATE OF Colorado
COUNTY OF Larimer

I, Abigail Cornwell

a Notary Public in and for said State, certify that on this date, 26th Oct, 17 carefully compared the original document to this copy, I now hold in my possession. This is complete, full, true, and exact copy of the original.

ABIGAIL CORNWELL
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20164014156
MY COMMISSION EXPIRES APRIL 18, 2020