

PRODUCT BULLETIN

May 31, 2007

Solectria Renewables' Inverters Achieve Top CEC Efficiency Ratings

Solectria Renewables line of 3-phase 480VAC PV inverters all have top CEC efficiency ratings covering a large range of power levels: 13.2kW, 15kW, 60kW, 82kW and 95kW inverter sizes, with corresponding product names: PVI 13KW, PVI 15KW, PVI 60KW, PVI 82KW, PVI 95KW. (All are listed to the new UL1741/IEEE1547 standard.) These inverters are for use in systems from 10kW to MW-level installations. 208 and 240VAC versions are also available.

Table showing inverter Model, AC output power rating and CEC* weighted efficiency rating:

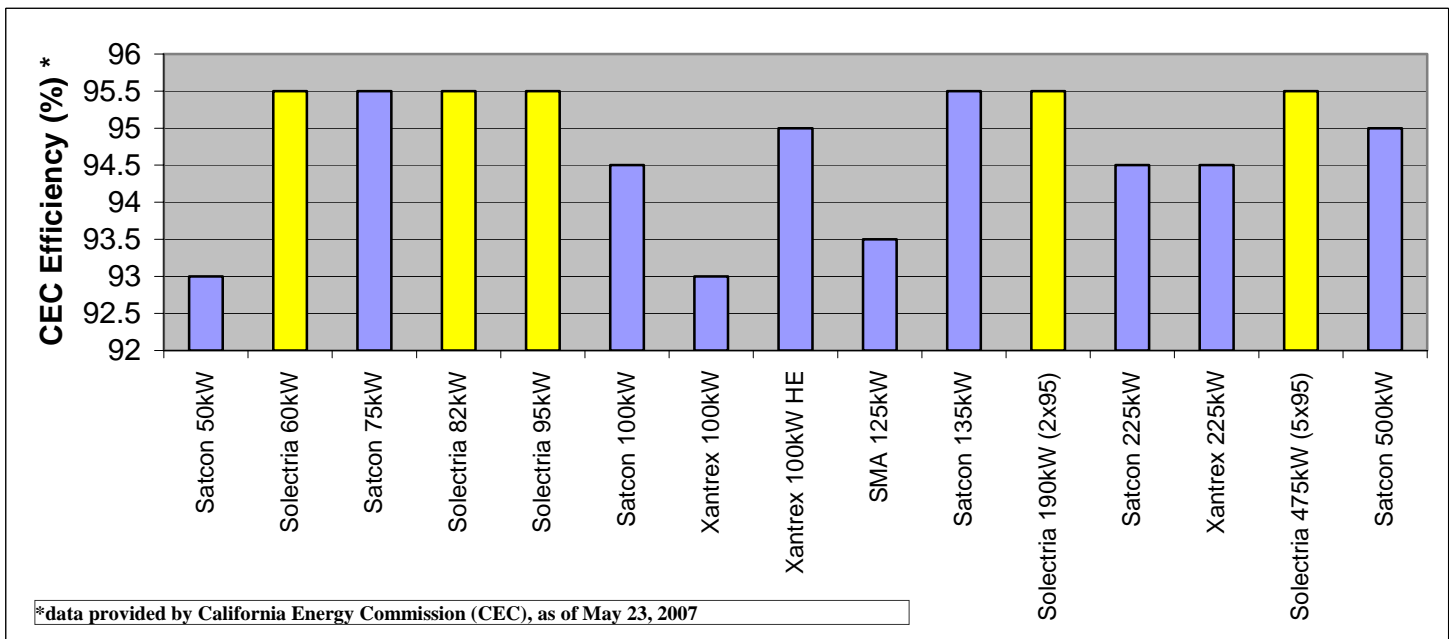
Inverter Model	AC Power	CEC Efficiency
PVI 95KW-480VAC	95 kW	95.5%
PVI 95KW-208VAC	95 kW	94.5%
PVI 82KW-480VAC	82 kW	95.5%
PVI 82KW-208VAC	82 kW	94.5%
PVI 60KW-480VAC	60 kW	95.5%
PVI 60KW-208VAC	60 kW	94.0%
PVI 15KW-480VAC	15 kW	94.5%
PVI 15KW-208VAC	15 kW	94.0%
PVI 13KW-480VAC	13.2 kW	94.5%
PVI 13KW-208VAC	13.2 kW	94.0%



*data provided by California Energy Commission (CEC), as of May 23, 2007

50kW to MW PV Systems:

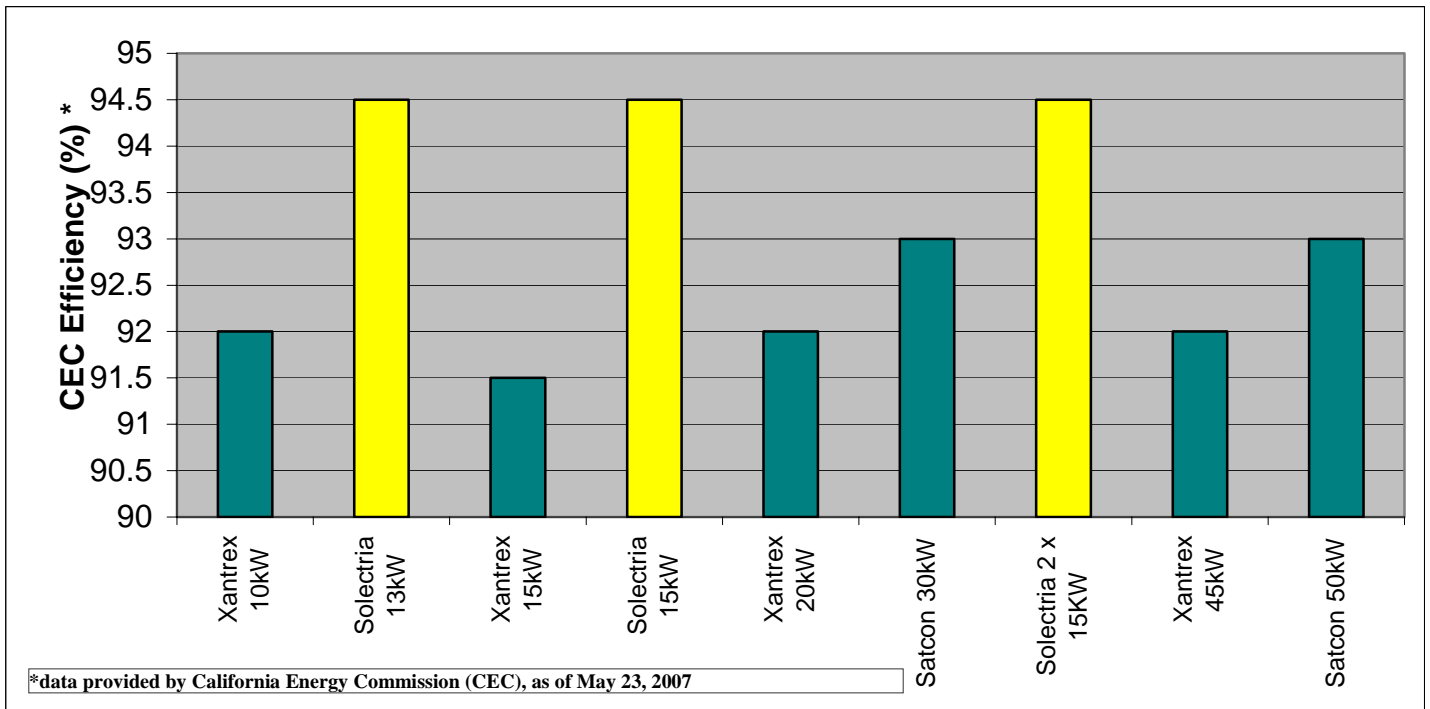
The bar graph below shows efficiency comparisons of the 480VAC versions of 60kW, 82kW and 95kW Solectria inverters compared to competitors (Satcon 50-500kW and Xantrex 100-225kW):



As can be seen in the graph, no product has a higher efficiency than the Solectria inverters in the 50-500kW inverter size range. For example in 150kW to MW sized systems these inverters have a CEC efficiency rating of 95.5%, which is higher than the competitors' 225-500kW inverters. Peak efficiency of the PVI 95KW-480VAC is over 96.5% as tested by independent laboratories. Furthermore, using multiples of the PVI 60KW, 82KW or 95KW inverters also provides multiple MPPT zones for more precise tracking and even greater annual energy production. The efficiency difference alone will account for thousands of dollars per year of added electrical generation.

10-50kW PV Systems:

Bar graph showing efficiency comparisons of 480VAC versions of 13.2kW and 15kW inverters compared to competitors (Satcon 30, 50kW and Xantrex 10, 15, 20, 45kW):



The data above shows that for 10-50kW systems, use of 1-3 Solectria 13 and/or 15kW inverters will give the highest system efficiency by a significant margin for smaller commercial 3-phase systems. Peak efficiency of the PVI 15KW-480VAC is 95.8%. Two inverters are ideal for systems from 20-36kW STC array size and three inverters are ideal for system sizes from 36-54 kW STC array size. All of these combinations will provide the highest efficiency of any 3-phase inverter on the market.

Systems that are 50kW and larger will get best efficiency by using the single 60kW – 95kW inverters (see first bar graph above). All Solectria inverters have the additional benefit of true zero nighttime power use unlike most others in the industry that have a 60-100W or higher loss all night long.

Solectria Renewables, LLC, of Lawrence, Massachusetts, is a leader in the development and manufacture of a wide range of inverters for renewable power applications including 1.8kW to 95kW grid tied PV inverters for systems from 1kW to multi-MW.

For more information visit: www.solren.com

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