Manufacturer: Advanced Energy Industries, Inc.

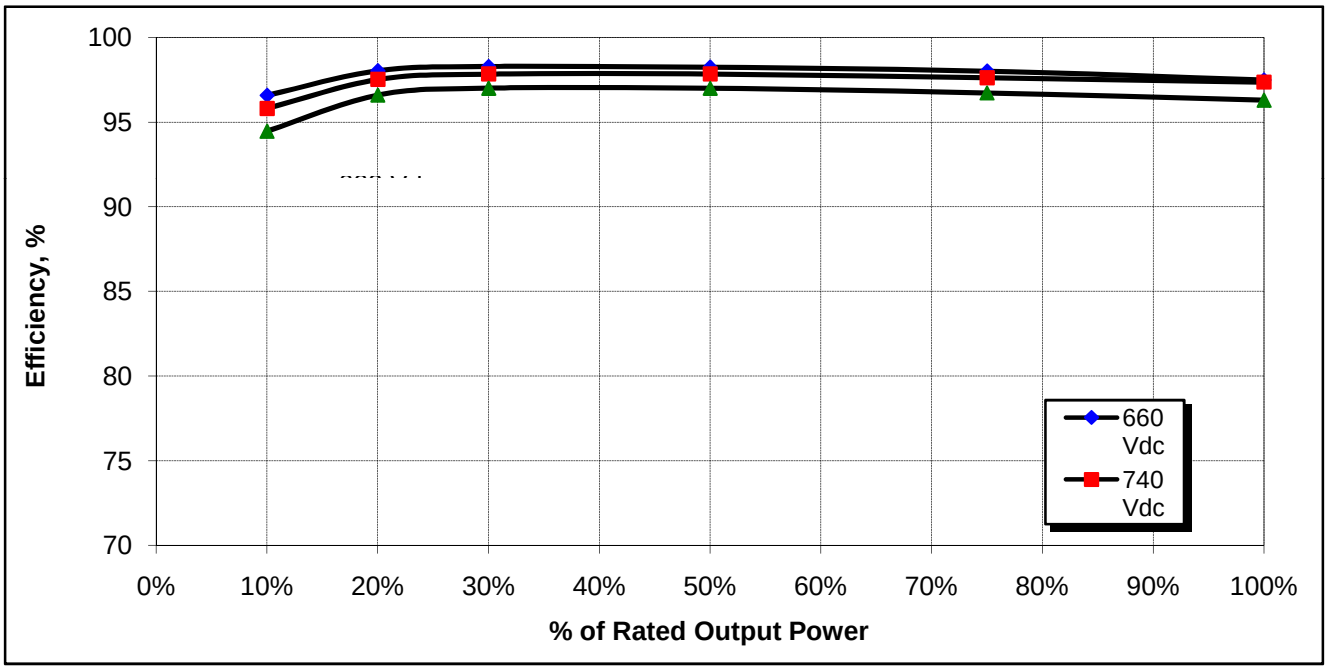
Model #: Solaron 333 (3159000-103, 3159000-104, 3159000-105, 3159000-106, 3159000-107, 3159000-108, 3159000-109)

Rated Maximum Continuous Output Power: 333.00 kW Night Tare Loss: 60.00 W

Vmin: 660 Vdc Vnom: 740 Vdc Vmax: 960 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		33.30	66.60	99.90	166.50	249.75	333.00	Wtd
Vmin	660	96.6	98.0	98.3	98.2	98.0	97.5	98.0
Vnom	740	95.8	97.5	97.8	97.8	97.6	97.4	97.6
Vmax	960	94.5	96.6	97.0	97.0	96.7	96.3	96.7

CEC Efficiency = 97.5%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	31896.67	661.000	96.55	31880.00	661.000	96.57	31906.67	660.933	96.59	31900.00	660.933	96.60	31913.33	661.000	96.58
20%	Vmin	70883.33	661.100	98.02	70866.67	661.100	98.03	70876.67	661.067	98.02	70870.00	661.067	98.04	70853.33	661.067	98.02
30%	Vmin	105693.33	661.133	98.28	105693.33	661.167	98.28	105650.00	661.167	98.29	105660.00	661.167	98.28	105673.33	661.167	98.26
50%	Vmin	151693.33	661.300	98.23	151650.00	661.333	98.23	151700.00	661.267	98.24	151673.33	661.200	98.24	151700.00	661.200	98.24
75%	Vmin	234603.33	663.467	98.01	234586.67	663.500	98.01	234573.33	663.433	98.00	234540.00	663.500	98.01	234580.00	663.500	98.01
100%	Vmin	317293.33	662.533	97.49	317006.67	662.333	97.49	317706.67	662.833	97.47	317856.67	662.867	97.49	317830.00	662.900	97.48
10%	Vnom	31876.67	735.900	95.79	31873.33	735.900	95.79	31880.00	735.900	95.79	31883.33	735.900	95.80	31880.00	735.900	95.81
20%	Vnom	71563.33	736.000	97.52	71550.00	736.000	97.50	71556.67	736.000	97.51	71580.00	736.000	97.53	71580.00	736.000	97.53
30%	Vnom	106193.33	736.100	97.83	106196.67	736.100	97.84	106193.33	736.100	97.84	106200.00	736.100	97.85	106186.67	736.100	97.83
50%	Vnom	151836.67	736.200	97.85	151870.00	736.200	97.86	151856.67	736.200	97.86	151826.67	736.200	97.83	151796.67	736.200	97.82
75%	Vnom	234166.67	736.400	97.61	234173.33	736.400	97.61	234190.00	736.400	97.62	234216.67	736.400	97.62	234196.67	736.400	97.61
100%	Vnom	317693.33	736.533	97.36	317663.33	736.567	97.35	317663.33	736.567	97.36	317713.33	736.533	97.37	317686.67	736.567	97.36
10%	Vmax	31900.00	946.400	94.47	31893.33	946.400	94.45	31906.67	946.400	94.49	31900.00	946.400	94.45	31906.67	946.400	94.47
20%	Vmax	71643.33	946.500	96.61	71636.67	946.500	96.59	71640.00	946.467	96.60	71646.67	946.467	96.60	71643.33	946.500	96.59
30%	Vmax	106103.33	946.600	96.99	106140.00	946.600	97.01	106120.00	946.600	97.00	106153.33	946.600	97.03	106166.67	946.600	97.04
50%	Vmax	152823.33	946.767	97.02	152816.67	946.733	97.02	152786.67	946.800	97.01	152810.00	946.733	97.02	152796.67	946.733	97.01
75%	Vmax	234776.67	946.900	96.74	234776.67	946.900	96.74	234750.00	946.900	96.73	234716.67	946.900	96.72	234740.00	946.900	96.73
100%	Vmax	317763.33	947.100	96.30	317800.00	947.067	96.31	317743.33	947.067	96.29	317693.33	947.067	96.28	317763.33	947.067	96.30

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	31930.00	660.967	96.61	31913.333	661.000	96.62									
20%	Vmin	70860.00	661.033	98.04	70870	661.067	98.03									
30%	Vmin	105683.33	661.133	98.29	105663.33	661.200	98.29									
50%	Vmin	151700.00	661.267	98.24	151676.67	661.267	98.23									
75%	Vmin	234540.00	663.567	98.01	234503.33	663.533	98.01									
100%	Vmin	317876.67	662.867	97.48	317786.67	662.933	97.48									
10%	Vnom	31873.33	735.900	95.78	31880	735.900	95.81									
20%	Vnom	71573.33	736.000	97.53	71563.333	736.000	97.52									
30%	Vnom	106193.33	736.100	97.85	106183.33	736.100	97.83									
50%	Vnom	151863.33	736.200	97.87	151850	736.200	97.85									
75%	Vnom	234270.00	736.400	97.63	234286.67	736.400	97.64									
100%	Vnom	317766.67	736.533	97.38	317696.67	736.567	97.36									
10%	Vmax	31910.00	946.400	94.48	31900	946.400	94.47									
20%	Vmax	71643.33	946.500	96.58	71660	946.467	96.61									
30%	Vmax	106110.00	946.600	97.00	106126.67	946.600	97.00									
50%	Vmax	152790.00	946.700	97.01	152746.67	946.700	96.99									
75%	Vmax	234683.33	946.900	96.72	234723.33	946.900	96.73									
100%	Vmax	317813.33	947.100	96.31	317800	947.100	96.31									