Manufacturer: HiQ Solar, Inc.

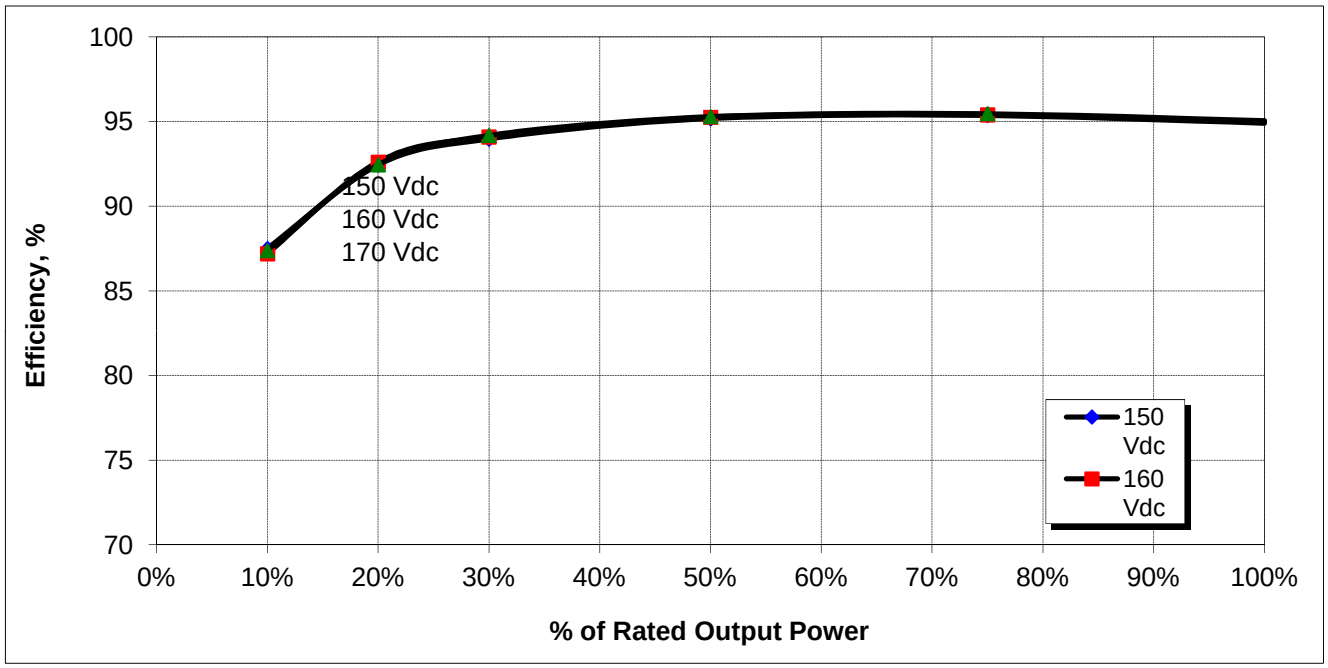
Model #: Mini3500-US + BAL1000

Rated Maximum Continuous Output Power: 3.50 kW Night Tare Loss: -3.74 W

Vmin: 150 Vdc Vnom: 160 Vdc Vmax: 170 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.35	0.70	1.05	1.75	2.63	3.50	Wtd
Vmin	150	87.5	92.4	94.0	95.2	95.4	94.9	94.7
Vnom	160	87.2	92.6	94.1	95.3	95.4	95.0	94.7
Vmax	170	87.4	92.5	94.2	95.3	95.5	95.1	94.8

CEC Efficiency = 94.5%



Manufacturer: HiQ Solar, Inc.

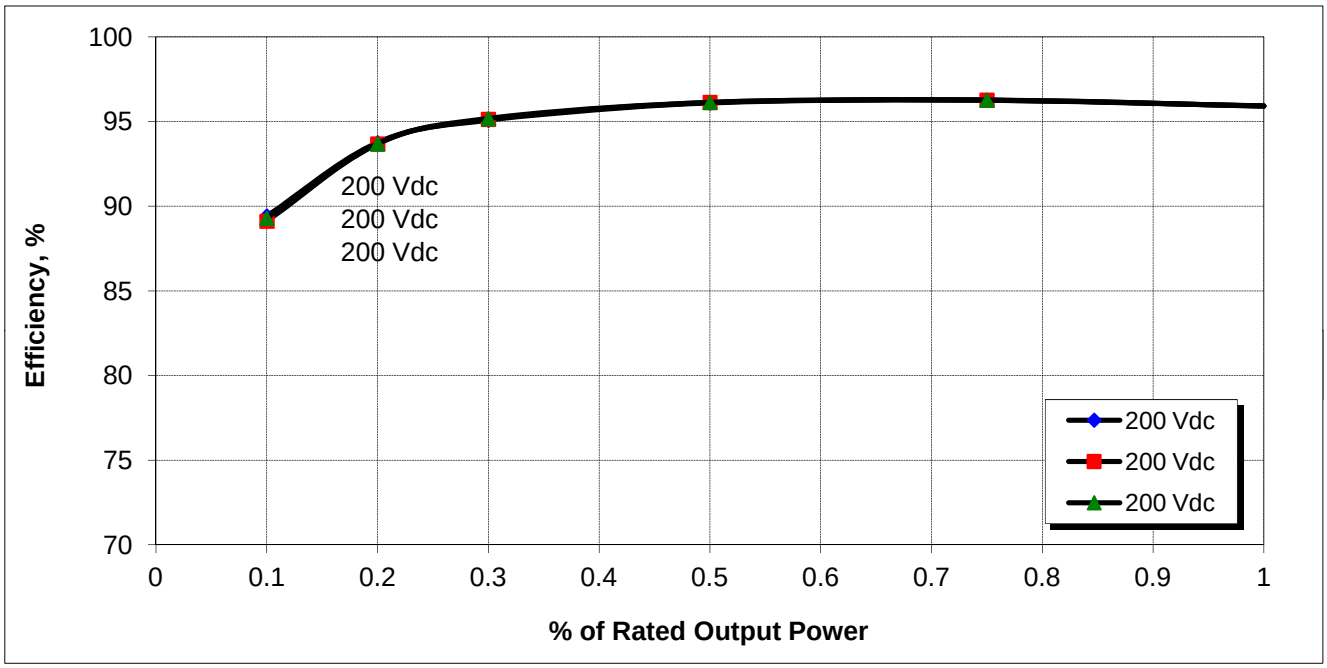
Model #: Mini3500-US

Rated Maximum Continuous Output Power: 3.50 kW Night Tare Loss: -3.74 W

Vmin: 200 Vdc Vnom: 200 Vdc Vmax: 200 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.35	0.70	1.05	1.75	2.63	3.50	Wtd
Vmin	200	89.4	93.8	95.1	96.1	96.3	95.9	95.7
Vnom	200	89.1	93.7	95.1	96.1	96.3	95.9	95.7
Vmax	200	89.3	93.7	95.2	96.1	96.3	95.9	95.7

CEC Inverter Efficiency Only = 95.5%



Balancer (BAL 1000) Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.1	0.2	0.3	0.5	0.75	1	Wtd
Vmin	150	97.85	98.58	98.83	99.03	99.05	98.93	98.94
Vnom	160	97.85	98.86	98.91	99.09	99.11	99.03	99.01
Vmax	170	97.87	98.68	98.96	99.14	99.17	99.11	99.06

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	0.3601	200	87.497	0.361	200	87.564	0.356	200	87.370	0.358	200	87.546	0.36	200	87.518
20%	Vmin	0.7149	200	92.344	0.716	200	92.448	0.718	200	92.418	0.717	200	92.438	0.717	200	92.477
30%	Vmin	1.0307	200	94.017	1.029	200	93.948	1.034	200	93.948	1.028	200	93.938	1.032	200	93.987
50%	Vmin	1.7429	200	95.178	1.743	200	95.168	1.738	200	95.168	1.74	200	95.168	1.743	200	95.168
75%	Vmin	2.6228	200	95.346	2.63	200	95.355	2.637	200	95.346	2.628	200	95.355	2.628	200	95.355
100%	Vmin	3.5001	200	94.904	3.503	200	94.894	3.5	200	94.893	3.5	200	94.884	3.495	200	94.903
10%	Vnom	0.3453	200	87.222	0.348	200	87.176	0.349	200	87.304	0.349	200	87.143	0.344	200	87.135
20%	Vnom	0.6993	200	92.385	0.702	200	92.415	0.702	200	93.361	0.704	200	92.425	0.706	200	92.454
30%	Vnom	1.0491	200	94.093	1.048	200	94.093	1.051	200	94.122	1.05	200	94.103	1.049	200	94.044
50%	Vnom	1.7438	200	95.235	1.753	200	95.275	1.748	200	95.255	1.751	200	95.275	1.756	200	95.235
75%	Vnom	2.6349	200	95.403	2.636	200	95.403	2.628	200	95.403	2.637	200	95.403	2.63	200	95.393
100%	Vnom	3.4852	200	94.980	3.481	200	94.990	3.487	200	94.980	3.482	200	94.980	3.49	200	94.990
10%	Vmax	0.3514	200	87.339	0.352	200	87.378	0.353	200	87.389	0.353	200	87.391	0.353	200	87.464
20%	Vmax	0.7012	200	92.483	0.702	200	92.433	0.702	200	92.414	0.7	200	92.434	0.701	200	92.493
30%	Vmax	1.0529	200	94.190	1.054	200	94.190	1.056	200	94.180	1.056	200	94.180	1.056	200	94.190
50%	Vmax	1.7615	200	95.284	1.764	200	95.284	1.761	200	95.323	1.758	200	95.283	1.751	200	95.303
75%	Vmax	2.6204	200	95.481	2.621	200	95.461	2.625	200	95.471	2.624	200	95.451	2.622	200	95.461
100%	Vmax	3.4974	200	95.056	3.489	200	95.066	3.495	200	95.056	3.496	200	95.056	3.498	200	95.046

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															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															