Manufacturer: Schneider Electric Solar Inverters USA

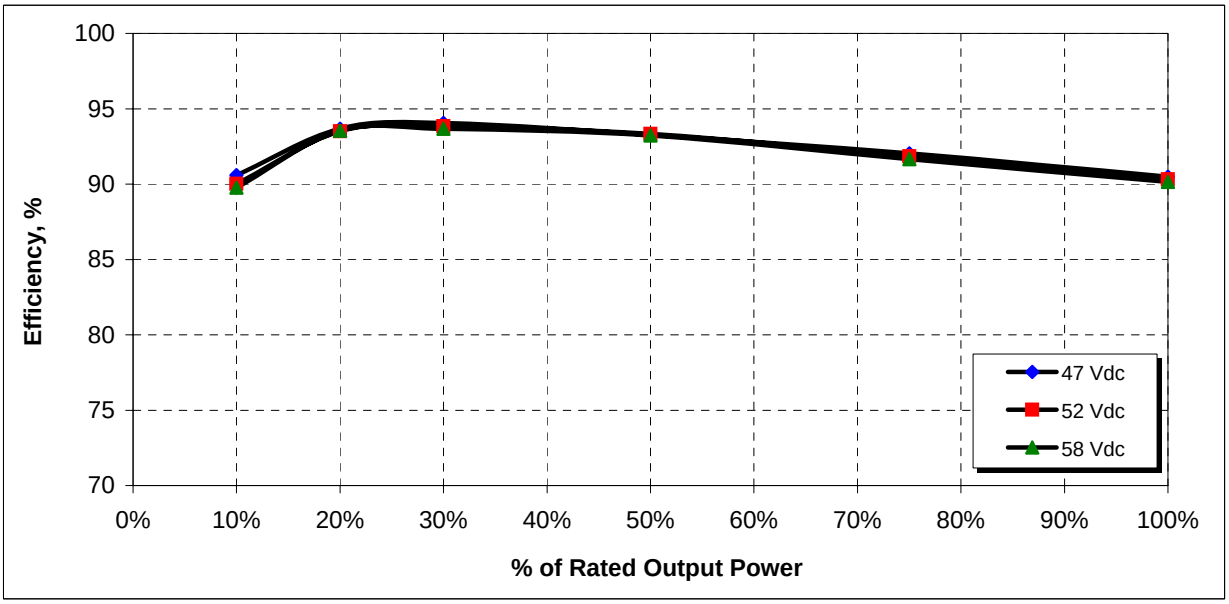
Model #: XW 6848-NA (120V field-configured)

Rated Maximum Continuous Output Power @40°C: 5751.00 W Night Tare Loss: 6.00 W

Vmin: 47 Vdc Vnom: 52 Vdc Vmax: 58 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)								Wtd
Vmin	47	90.6	93.7	94.1	93.3	92.0	90.5	92.5
Vnom	52	90.0	93.5	93.9	93.3	91.9	90.3	92.3
Vmax	58	89.8	93.5	93.7	93.2	91.7	90.1	92.2

CEC Efficiency = 92.5%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Input Voltage	Output Power	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
(Vdc)	(% of rated)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
Vmin	10%	500	47.05	90.539	511	47.05	90.769	500	47.05	90.555	505	47.05	90.637	500	47.05	90.547
	20%	1145	47.09	93.65	1155	47.09	93.677	1143	47.09	93.537	1146	47.09	93.659	1156	47.09	93.703
	30%	1695	47.09	94.056	1690	47.09	94.056	1675	47.09	94.003	1697	47.09	94.073	1692	47.09	94.073
	50%	2871	47.11	93.197	2866	47.1	93.24	2868	47.1	93.214	2853	47.1	93.292	2856	47.1	93.223
	75%	4286	47.59	91.937	4283	47.19	92.013	4293	47.11	92.022	4288	47.08	92.047	4295	47.08	92.056
	100%	5764	47.54	90.424	5746	47.11	90.481	5727	47.12	90.506	5744	47.08	90.506	5747	47.08	90.473
Vnom	10%	506	52.02	90.082	513	52.02	89.92	502	52.02	89.944	508	52.02	90.025	501	52.02	89.888
	20%	1167	52.05	93.528	1157	52.05	93.414	1159	52.05	93.493	1154	52.05	93.537	1156	52.05	93.554
	30%	1681	52.02	93.835	1695	52.02	93.844	1693	52.02	93.835	1676	52.02	93.844	1690	52.02	93.853
	50%	2868	52.02	93.275	2845	52.03	93.31	2844	52.03	93.345	2867	52.03	93.31	2846	52.03	93.327
	75%	4292	52.02	91.827	4295	52.02	91.836	4283	52.03	91.895	4290	52.03	91.861	4279	52.04	91.853
	100%	5743.00	52.07	90.30	5724.00	52.07	90.30	5738.00	52.07	90.33	5733.00	52.07	90.32	5767	52.07	90.30161
Vmax	10%	513	58.06	90.131	497	58.02	89.453	505	58.02	89.847	516	58.02	89.871	513	58.02	89.678
	20%	1159	58.01	93.563	1160	58.01	93.563	1155	58.01	93.554	1151	58.01	93.554	1163	58.01	93.554
	30%	1693	58.04	93.686	1677	58.02	93.624	1682	58.03	93.668	1673	58.03	93.721	1673	58.03	93.659
	50%	2850	58.03	93.188	2852	58.03	93.136	2863	58.03	93.188	2848	58.03	93.266	2840	58.03	93.214
	75%	4298	58.04	91.651	4306	58.04	91.659	4299	58.04	91.651	4297	58.04	91.625	4306	58.04	91.625
	100%	5741	57.99	90.147	5748	57.99	90.123	5733	57.99	90.131	5740	57.98	90.106	5741	57.98	90.163

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Input Voltage	Output Power	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
(Vdc)	(% of rated)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
Vmin	10%	501	47.05	90.58	501	47.05	90.522	502	47.05	90.572	503	47.05	90.572	500	47.05	90.555
	20%	1162	47.09	93.677	1163	47.09	93.677	1155	47.09	93.677	1172	47.09	93.747	1157	47.09	93.712
	30%	1682	47.09	94.056	1683	47.09	94.065	1685	47.09	94.047	1690	47.09	94.127	1685	47.09	94.047
	50%	2848	47.1	93.231	2851	47.1	93.275	2871	47.1	93.353	2875	47.1	93.327	2848	47.1	93.362
	75%	4291	47.08	92.047	4304	47.08	92.039	4301	47.08	92.064	4294	47.08	92.056	4305	47.08	92.073
	100%	5750	47.08	90.49	5754	47.08	90.473	5767	47.08	90.465	5742	47.08	90.514	5749	47.08	90.457
Vnom	10%	515	52.02	90.196	514	52.02	90.082	502	52.02	89.799	508	52.02	89.96	517	52.02	90.351
	20%	1154	52.05	93.484	1169	52.05	93.51	1156	52.05	93.519	1155	52.05	93.493	1161	52.05	93.537
	30%	1683	52.02	93.861	1690	52.02	93.853	1676	52.02	93.853	1672	52.02	93.87	1696	52.02	93.879
	50%	2847	52.03	93.301	2858	52.03	93.345	2855	52.03	93.362	2833	52.03	93.397	2856	52.03	93.379
	75%	4289	52.03	91.87	4280	52.03	91.861	4288	52.03	91.836	4312	52.01	91.819	4299	52.02	91.844
	100%	5743.00	52.07	90.29	5741.00	52.07	90.32	5745	52.07	90.30976	5756	52.07	90.31792	5759	52.07	90.33424
Vmax	10%	497	58.02	89.678	511	58.02	89.55	504	58.02	89.823	506	58.02	89.686	512	58.02	89.944
	20%	1146	58.01	93.519	1153	58.01	93.545	1150	58.01	93.563	1163	58.01	93.58	1162	58.01	93.475
	30%	1684	58.03	93.659	1691	58.02	93.58	1687	58.02	93.686	1686	58.03	93.668	1676	58.02	93.694
	50%	2831	58.03	93.223	2845	58.03	93.231	2851	58.03	93.24	2855	58.03	93.257	2849	58.03	93.249
	75%	4311	58.04	91.651	4288	58.04	91.676	4299	58.04	91.659	4276	58.04	91.718	4279	58.02	91.718
	100%	5750	57.98	90.147	5742	57.98	90.131	5737	57.98	90.147	5738	57.98	90.171	5756	57.98	90.155

VARIATIONS							
Input Voltage	Output Power	Absolutes			Percentages (%)		
(Vdc)	(% of rated)	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
Vmin	10%	11.000	0.000	0.247	2.19%	0.00%	0.27%
	20%	18.000	0.000	0.053	1.56%	0.00%	0.06%
	30%	15.000	0.000	0.017	0.89%	0.00%	0.02%
	50%	23.000	0.010	0.095	0.80%	0.02%	0.10%
	75%	21.000	0.510	0.119	0.49%	1.08%	0.13%
	100%	20.000	0.460	0.082	0.35%	0.98%	0.09%
Vnom	10%	14.000	0.000	0.308	2.75%	0.00%	0.34%
	20%	15.000	0.000	0.140	1.29%	0.00%	0.15%
	30%	19.000	0.000	0.026	1.13%	0.00%	0.03%
	50%	23.000	0.010	0.070	0.81%	0.02%	0.08%
	75%	16.000	0.020	0.068	0.37%	0.04%	0.07%
	100%	43.000	0.000	0.033	0.75%	0.00%	0.04%
Vmax	10%	19.000	0.040	0.678	3.74%	0.07%	0.76%
	20%	17.000	0.000	0.044	1.47%	0.00%	0.05%
	30%	20.000	0.020	0.141	1.19%	0.03%	0.15%
	50%	32.000	0.000	0.130	1.12%	0.00%	0.14%
	75%	23.000	0.000	0.051	0.53%	0.00%	0.06%
	100%	10.000	0.010	0.057	0.17%	0.02%	0.06%