Manufacturer: SMA Solar Technology AG

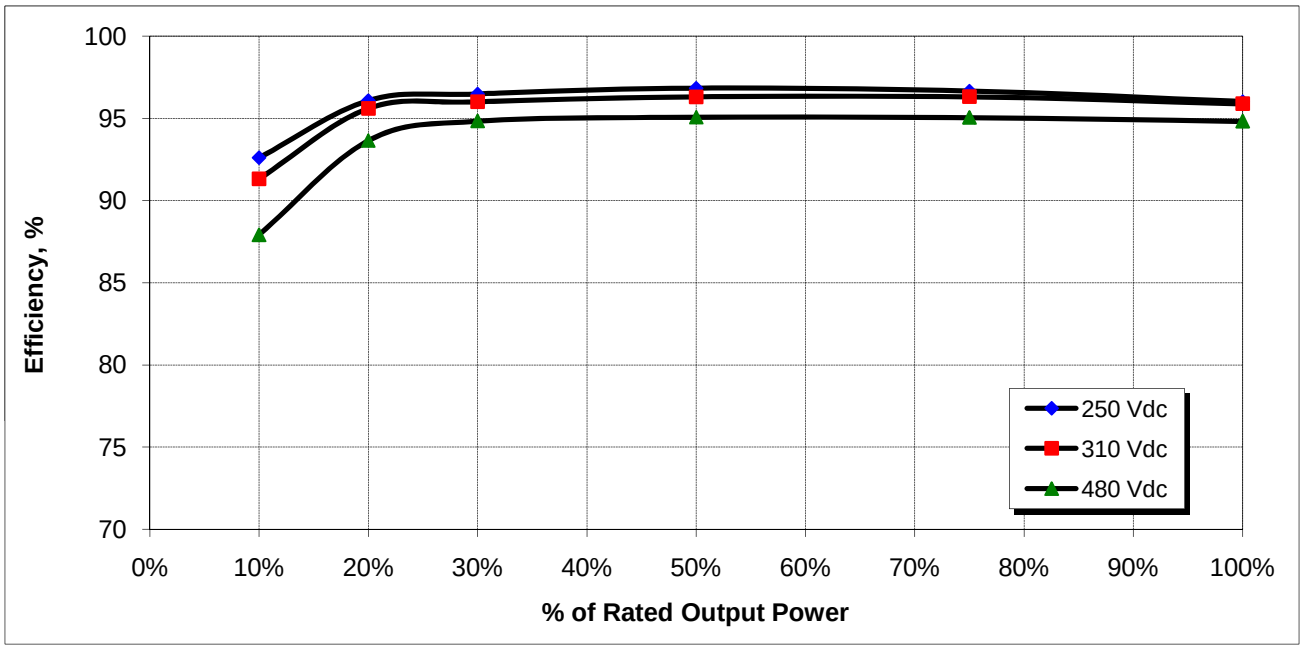
Model #: ST36 240Vac

Rated Maximum Continuous Output Power: 36.00 kW Night Tare Loss: 0.60 W

Vmin: 250 Vdc Vnom: 310 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		3.60	7.20	10.80	18.00	27.00	36.00	Wtd
Vmin	250	92.6	96.1	96.5	96.8	96.7	96.0	96.4
Vnom	310	91.3	95.6	96.0	96.3	96.3	95.9	96.0
Vmax	480	87.9	93.6	94.8	95.1	95.0	94.8	94.7

CEC Efficiency = 96%



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	-21406	250.1	92.646	-3567	250.1	92.630	-3567	250.2	92.616	-3566	250.1	92.599	-3562	250.1	92.534
20%	Vmin	-47092	250.2	96.304	-7853	250.2	96.094	-7861	250.2	96.077	-7850	250.2	95.945	-7850	250.2	95.924
30%	Vmin	-69365	250.2	96.562	-11554	250.3	96.507	-11550	250.3	96.477	-11554	250.2	96.429	-11543	250.3	96.417
50%	Vmin	-98748	250.4	96.857	-16452	250.4	96.856	-16458	250.3	96.823	-16458	250.4	96.823	-16452	250.3	96.788
75%	Vmin	-151920	250.4	96.700	-25320	250.5	96.678	-25308	250.4	96.677	-25302	250.4	96.632	-25290	250.5	96.586
100%	Vmin	-205848	250.8	96.069	-34296	250.8	96.051	-34314	251	96.021	-34284	250.8	95.985	-34272	250.8	95.968
10%	Vnom	-21298	309.7	91.607	-3545	309.7	91.441	-3538	309.8	91.214	-3537	309.7	91.212	-3533	309.7	91.133
20%	Vnom	-46908	309.8	95.682	-7816	309.8	95.653	-7811	309.8	95.629	-7805	309.8	95.535	-7804	309.8	95.527
30%	Vnom	-68587	309.9	96.067	-11428	309.8	96.061	-11416	309.9	95.994	-11421	309.9	95.972	-11420	309.9	95.952
50%	Vnom	-101808	309.9	96.519	-16980	309.9	96.422	-16968	310	96.289	-16974	310	96.224	-16962	310	96.091
75%	Vnom	-152712	310	96.343	-25464	310	96.323	-25452	310	96.322	-25464	310	96.301	-25458	310.1	96.279
100%	Vnom	-207468	310.1	95.906	-34572	310.1	95.905	-34566	310.1	95.905	-34578	310.2	95.890	-34548	310.1	95.823
10%	Vmax	-21020	478.7	87.976	-3505	478.7	87.967	-3503	478.7	87.937	-3502	478.7	87.905	-3500	478.7	87.820
20%	Vmax	-47149	478.8	93.737	-7851	478.7	93.658	-7849	478.7	93.657	-7845	478.7	93.593	-7844	478.7	93.586
30%	Vmax	-69347	478.8	94.892	-11554	478.7	94.857	-11552	478.8	94.847	-11548	478.7	94.813	-11545	478.7	94.783
50%	Vmax	-107964	478.7	95.116	-18006	478.7	95.089	-18006	478.7	95.059	-18000	478.7	95.057	-18000	478.7	95.027
75%	Vmax	-151956	478.9	95.089	-25314	478.7	95.087	-25320	478.7	95.024	-25314	478.7	95.023	-25314	478.7	95.001
100%	Vmax	-207324	478.8	94.845	-34566	478.8	94.816	-34566	478.9	94.816	-34548	478.8	94.813	-34548	478.8	94.813

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															