Manufacturer: Siemens Industry

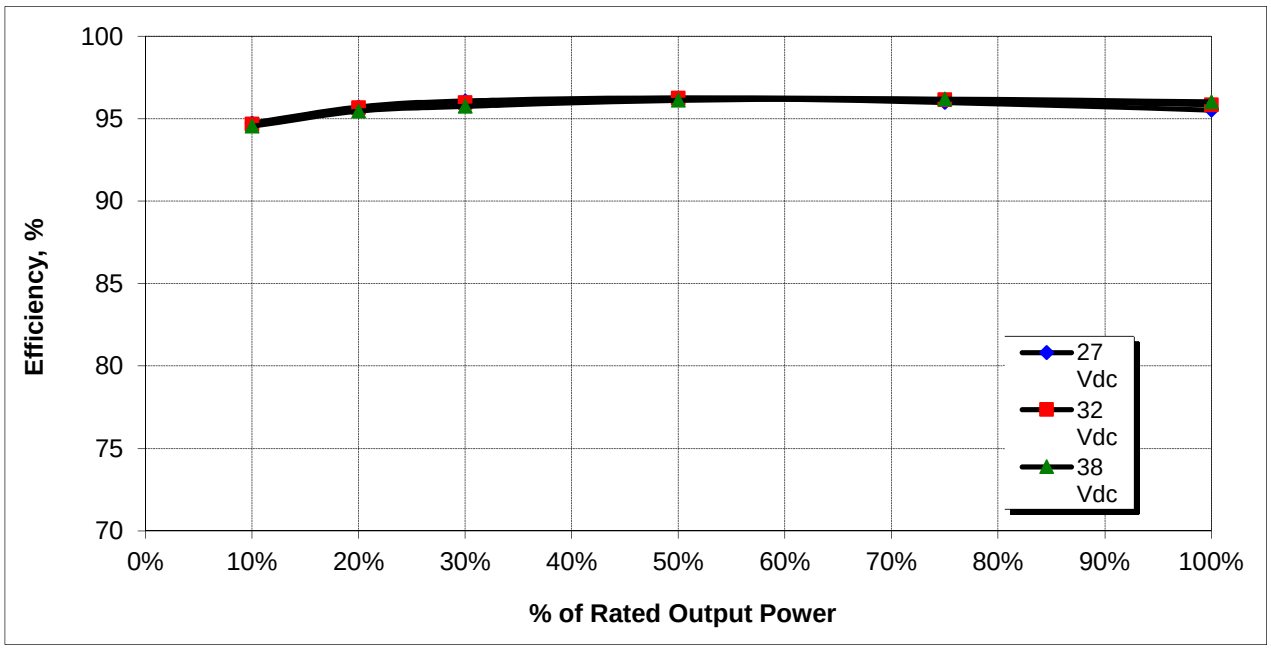
Model #: SMIINT250R60XX (208 VAC)

Rated Maximum Continuous Output Power @25°C: 0.240 kW Night Tare Loss: -0.043 W
Rated Maximum Continuous Output Power @40°C: 0.240 kW Night Tare Loss: -0.043 W

Vmin: 27 Vdc Vnom: 32 Vdc Vmax: 38 Vdc

		Power Level (%; kW)							
		10%	20%	30%	50%	75%	100%		
Input Voltage (Vdc)		0.02	0.05	0.07	0.12	0.18	0.24	Wtd	
Vmin	27	94.7	95.7	96.1	96.3	96.0	95.5	96.0	
Vnom	32	94.7	95.7	96.0	96.3	96.2	95.8	96.1	96.02
Vmax	38	94.5	95.5	95.8	96.1	96.2	96.0	96.0	

CEC Efficiency = 96.0%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power (% of rated)	Input Voltage (Vdc)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)
10%	Vmin	22.387	27.3593	94.6488	22.389	27.361	94.654	22.391	27.364	94.657	22.392	27.365	94.665	22.390	27.363	94.661
20%	Vmin	47.623	27.2606	95.719771	47.625	27.252	95.726	47.605	27.260	95.681	47.624	27.259	95.723	47.625	27.265	95.724
30%	Vmin	71.976	27.3642	96.068218	71.982	27.358	96.076	71.985	27.364	96.082	71.994	27.364	96.096	71.983	27.368	96.079
50%	Vmin	121.28	27.41	96.255603	121.280	27.410	96.261	121.279	27.413	96.262	121.282	27.410	96.263	121.280	27.409	96.261
75%	Vmin	181.22	27.4364	95.994686	181.214	27.438	95.988	181.239	27.436	96.001	181.237	27.437	96.002	181.213	27.437	95.988
100%	Vmin	231.7	27.4573	95.547198	231.686	27.456	95.541	231.644	27.456	95.524	231.650	27.456	95.524	231.685	27.456	95.539
10%	Vnom	22.309	32.0756	94.523749	22.321	32.076	94.567	22.324	32.076	94.586	22.322	32.072	94.572	22.307	32.078	94.508
20%	Vnom	47.605	31.9638	95.648547	47.621	31.959	95.678	47.623	31.964	95.682	47.605	31.962	95.645	47.621	31.963	95.681
30%	Vnom	71.936	32.0454	95.967714	71.940	32.050	95.971	71.935	32.053	95.965	71.946	32.049	95.980	71.945	32.052	95.976
50%	Vnom	121.26	32.0393	96.251796	121.259	32.036	96.252	121.255	32.042	96.250	121.280	32.043	96.266	121.266	32.037	96.256
75%	Vnom	181.58	32.1005	96.161863	181.581	32.101	96.161	181.581	32.103	96.161	181.615	32.102	96.180	181.614	32.100	96.177
100%	Vnom	231.65	32.1423	95.858203	231.649	32.140	95.855	231.596	32.141	95.834	231.615	32.142	95.841	231.614	32.142	95.841
10%	Vmax	22.217	38.5034	94.378435	22.215	38.512	94.374	22.216	38.499	94.382	22.216	22.216	38.511	22.217	38.510	94.385
20%	Vmax	47.277	38.5393	95.468093	47.274	38.540	95.469	47.280	38.536	95.480	47.281	38.537	95.484	47.281	38.536	95.481
30%	Vmax	71.936	32.0454	95.967714	71.694	38.648	95.720	71.711	38.646	95.740	71.713	38.642	95.742	71.695	38.644	95.719
50%	Vmax	121.02	38.6417	96.109629	121.041	38.640	96.123	121.047	38.643	96.127	121.031	38.641	96.115	121.042	38.643	96.122
75%	Vmax	181.73	38.6985	96.194612	181.746	38.699	96.206	181.714	38.698	96.188	181.712	38.697	96.188	181.754	38.700	96.212
100%	Vmax	232.18	38.659	96.044378	232.122	38.659	96.019	232.167	38.658	96.036	232.135	38.658	96.022	232.119	38.662	96.017

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power (% of rated)	Input Voltage (Vdc)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)
10%	Vmin	22.39	27.3632	94.658533	22.389	27.368	94.650	22.385	27.367	94.638	22.393	27.362	94.668	22.380	27.368	94.617
20%	Vmin	47.606	27.2616	95.685542	47.610	27.257	95.694	47.626	27.259	95.725	47.624	27.261	95.724	47.624	27.256	95.722
30%	Vmin	71.982	27.3602	96.077175	71.985	27.364	96.083	71.979	27.362	96.075	71.985	27.364	96.080	71.993	27.362	96.092
50%	Vmin	121.27	27.4157	96.253245	121.276	27.412	96.256	121.291	27.412	96.270	121.291	27.412	96.271	121.270	27.410	96.252
75%	Vmin	181.22	27.4361	95.994294	181.215	27.435	95.988	181.239	27.434	96.003	181.201	27.435	95.984	181.252	27.435	96.011
100%	Vmin	231.63	27.4564	95.518695	231.682	27.457	95.539	231.683	27.454	95.539	231.651	27.455	95.526	231.629	27.455	95.516
10%	Vnom	22.326	32.0746	94.594141	22.321	32.075	94.572	22.320	32.075	94.570	22.320	32.079	94.566	22.321	32.076	94.575
20%	Vnom	47.603	31.9646	95.640035	47.621	31.963	95.677	47.620	31.964	95.675	47.609	31.964	95.652	47.624	31.960	95.684
30%	Vnom	71.945	32.0507	95.977678	71.946	32.047	95.980	71.950	32.051	95.986	71.936	32.048	95.969	71.945	32.054	95.977
50%	Vnom	121.28	32.0349	96.266909	121.270	32.040	96.260	121.257	32.040	96.251	121.271	32.040	96.262	121.270	32.039	96.261
75%	Vnom	181.61	32.1021	96.180259	181.578	32.102	96.160	181.573	32.100	96.157	181.574	32.100	96.156	181.589	32.102	96.165
100%	Vnom	231.59	32.1418	95.831587	231.644	32.139	95.855	231.613	32.139	95.839	231.639	32.139	95.851	231.635	32.142	95.849
10%	Vmax	22.217	38.5111	94.392719	22.215	38.502	94.377	22.216	38.499	94.381	22.218	38.501	94.391	22.216	38.511	94.381
20%	Vmax	47.28	38.5394	95.479506	47.280	38.537	95.474	47.247	38.528	95.413	47.249	38.543	95.419	47.281	38.534	95.481
30%	Vmax	71.712	38.6516	95.74164	71.715	38.645	95.750	71.702	38.645	95.730	71.699	38.654	95.726	71.698	38.648	95.725
50%	Vmax	121.06	38.6441	96.135901	121.029	38.647	96.113	121.056	38.645	96.133	121.056	38.644	96.134	121.035	38.641	96.117
75%	Vmax	181.71	38.7018	96.189198	181.723	38.699	96.194	181.730	38.698	96.199	181.722	38.699	96.194	181.731	38.701	96.200
100%	Vmax	232.13	38.6605	96.020829	232.133	38.661	96.023	232.118	38.658	96.017	232.117	38.662	96.016	232.152	38.659	96.029