Manufacturer: Enphase Energy

Model #: C250-72-2LN-S2 Serial #: 121428009489

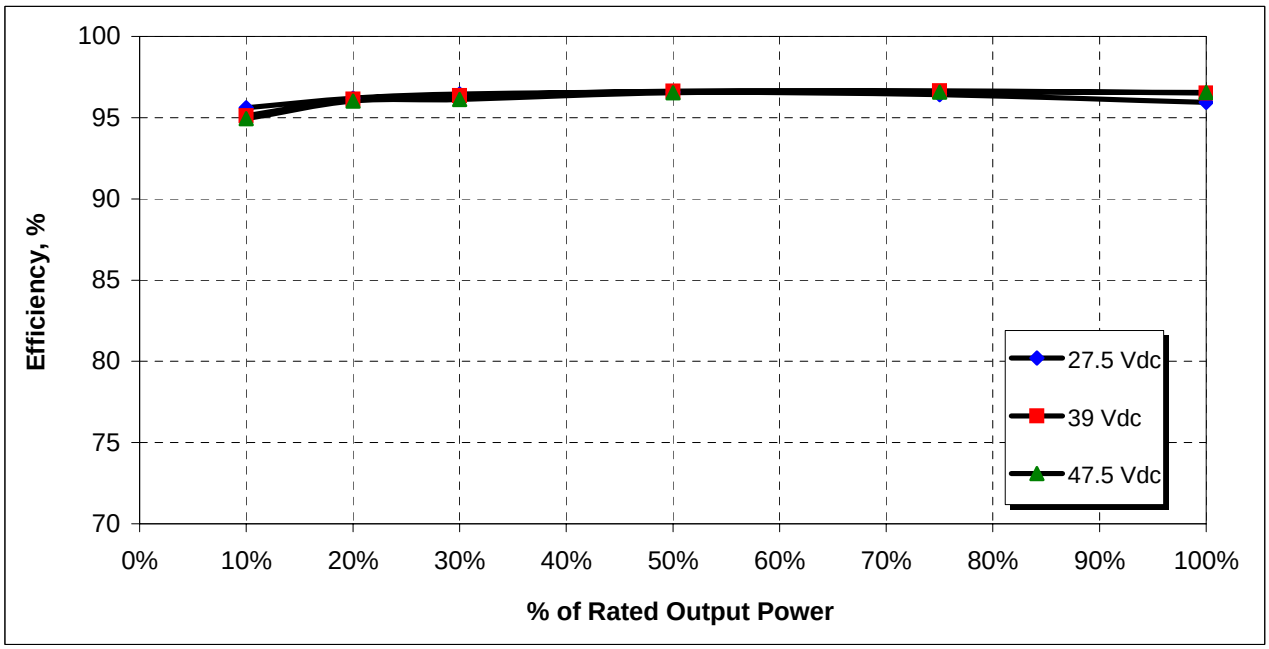
Rated Maximum Continuous Output Power @25°C: 0.247 kW Night Tare Loss: -0.071 W

Rated Maximum Continuous Output Power @40°C: 0.247 kW Night Tare Loss: -0.071 W

Vmin: 27.5 Vdc Vnom: 39 Vdc Vmax: 47.5 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.02	0.05	0.07	0.12	0.19	0.25	Wtd
Vmin	27.5	95.6	96.2	96.4	96.6	96.4	95.9	96.4
Vnom	39	95.1	96.1	96.4	96.6	96.6	96.5	96.5
Vmax	47.5	94.9	96.0	96.1	96.5	96.6	96.6	96.4

CEC Efficiency = 96.5%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	24.493	27.359	95.217	24.494	27.360	95.224	24.499	27.348	95.239	24.504	27.346	95.267	24.507	27.345	95.272
20%	Vmin	54.745	27.184	96.194	54.745	27.182	96.199	54.751	27.184	96.206	54.734	27.185	96.180	54.751	27.188	96.214
30%	Vmin	79.891	27.317	96.460	79.896	27.318	96.465	79.871	27.318	96.434	79.869	27.318	96.433	79.872	27.317	96.438
50%	Vmin	134.744	27.421	96.578	134.750	27.417	96.583	134.749	27.422	96.583	134.722	27.425	96.564	134.740	27.423	96.576
75%	Vmin	175.996	27.430	96.406	176.022	27.423	96.421	176.026	27.425	96.423	176.037	27.428	96.429	176.029	27.430	96.425
100%	Vmin	238.804	27.449	95.961	238.735	27.447	95.932	238.783	27.447	95.952	238.702	27.446	95.920	238.753	27.446	95.940
10%	Vnom	24.416	38.582	95.108	24.422	38.589	95.121	24.413	38.573	95.100	24.424	38.595	95.130	24.418	38.577	95.118
20%	Vnom	54.473	38.791	96.133	54.463	38.778	96.117	54.459	38.779	96.111	54.473	38.828	96.131	54.481	38.822	96.147
30%	Vnom	79.762	38.827	96.363	79.747	38.828	96.343	79.750	38.827	96.348	79.760	38.832	96.358	79.744	38.825	96.339
50%	Vnom	134.996	39.002	96.628	135.011	39.011	96.638	134.977	39.005	96.615	134.990	39.003	96.623	134.972	39.007	96.611
75%	Vnom	176.207	39.048	96.649	176.190	39.040	96.641	176.187	39.038	96.638	176.180	39.045	96.635	176.191	39.043	96.640
100%	Vnom	239.538	39.143	96.509	239.577	39.146	96.524	239.503	39.147	96.497	239.528	39.142	96.507	239.569	39.147	96.521
10%	Vmax	24.320	47.463	94.938	24.312	47.474	94.913	24.326	47.481	94.978	24.321	47.468	94.944	24.321	47.472	94.948
20%	Vmax	54.336	47.255	95.909	54.327	47.272	95.894	54.318	47.255	95.881	54.353	47.258	95.940	54.346	47.259	95.927
30%	Vmax	79.358	46.687	96.122	79.372	46.685	96.139	79.374	46.683	96.144	79.359	46.722	96.117	79.475	47.118	96.111
50%	Vmax	134.915	47.327	96.529	134.920	47.337	96.534	134.932	47.332	96.543	134.925	47.327	96.535	134.929	47.336	96.540
75%	Vmax	176.047	47.409	96.565	176.065	47.416	96.576	176.056	47.413	96.570	176.065	47.413	96.576	176.083	47.417	96.586
100%	Vmax	239.715	47.432	96.539	239.704	47.434	96.536	239.736	47.432	96.547	239.765	47.437	96.560	239.761	47.438	96.558

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	24.508	27.358	95.279	24.512	27.353	95.285	24.511	27.359	95.284	24.512	27.352	95.292	24.505	27.353	95.262
20%	Vmin	54.752	27.188	96.214	54.747	27.188	96.202	54.751	27.186	96.212	54.748	27.182	96.205	54.737	27.188	96.182
30%	Vmin	79.891	27.318	96.458	79.894	27.322	96.465	79.877	27.320	96.442	79.871	27.319	96.439	79.878	27.310	96.445
50%	Vmin	134.720	27.420	96.562	134.721	27.421	96.563	134.719	27.420	96.562	134.725	27.420	96.566	134.744	27.419	96.579
75%	Vmin	176.045	27.430	96.437	176.011	27.423	96.416	175.991	27.428	96.406	176.045	27.426	96.433	175.997	27.425	96.406
100%	Vmin	238.753	27.447	95.941	238.699	27.446	95.919	238.730	27.447	95.931	238.744	27.446	95.937	238.711	27.445	95.923
10%	Vnom	24.415	38.591	95.100	24.415	38.581	95.109	24.413	38.586	95.086	24.429	38.586	95.151	24.415	38.579	95.100
20%	Vnom	54.471	38.767	96.136	54.440	38.749	96.084	54.471	38.757	96.137	54.474	38.760	96.142	54.489	38.760	96.170
30%	Vnom	79.759	38.819	96.358	79.745	38.823	96.340	79.770	38.827	96.373	79.771	38.819	96.371	79.744	38.826	96.339
50%	Vnom	135.009	39.014	96.639	135.000	39.008	96.631	135.009	39.001	96.638	135.013	38.999	96.639	134.998	39.008	96.630
75%	Vnom	176.210	39.040	96.649	176.203	39.042	96.649	176.178	39.036	96.633	176.181	39.042	96.635	176.227	39.041	96.661
100%	Vnom	239.559	39.142	96.518	239.497	39.148	96.493	239.488	39.146	96.490	239.519	39.143	96.502	239.526	39.140	96.504
10%	Vmax	24.331	47.479	94.993	24.325	47.488	94.970	24.326	47.474	94.976	24.290	47.476	94.820	24.327	47.481	94.977
20%	Vmax	54.360	47.251	95.952	54.358	47.274	95.951	54.355	47.244	95.939	54.360	47.264	95.951	54.349	47.263	95.930
30%	Vmax	79.497	47.104	96.128	79.481	47.110	96.118	79.485	47.117	96.123	79.478	47.118	96.117	79.501	47.115	96.141
50%	Vmax	134.942	47.337	96.549	134.906	47.343	96.523	134.923	47.347	96.531	134.941	47.340	96.547	134.904	47.340	96.520
75%	Vmax	176.051	47.414	96.569	176.056	47.419	96.569	176.030	47.420	96.557	176.054	47.414	96.569	176.085	47.426	96.587
100%	Vmax	239.769	47.434	96.561	239.749	47.435	96.554	239.761	47.432	96.558	239.761	47.435	96.557	239.757	47.435	96.558