Manufacturer: LG Electronics

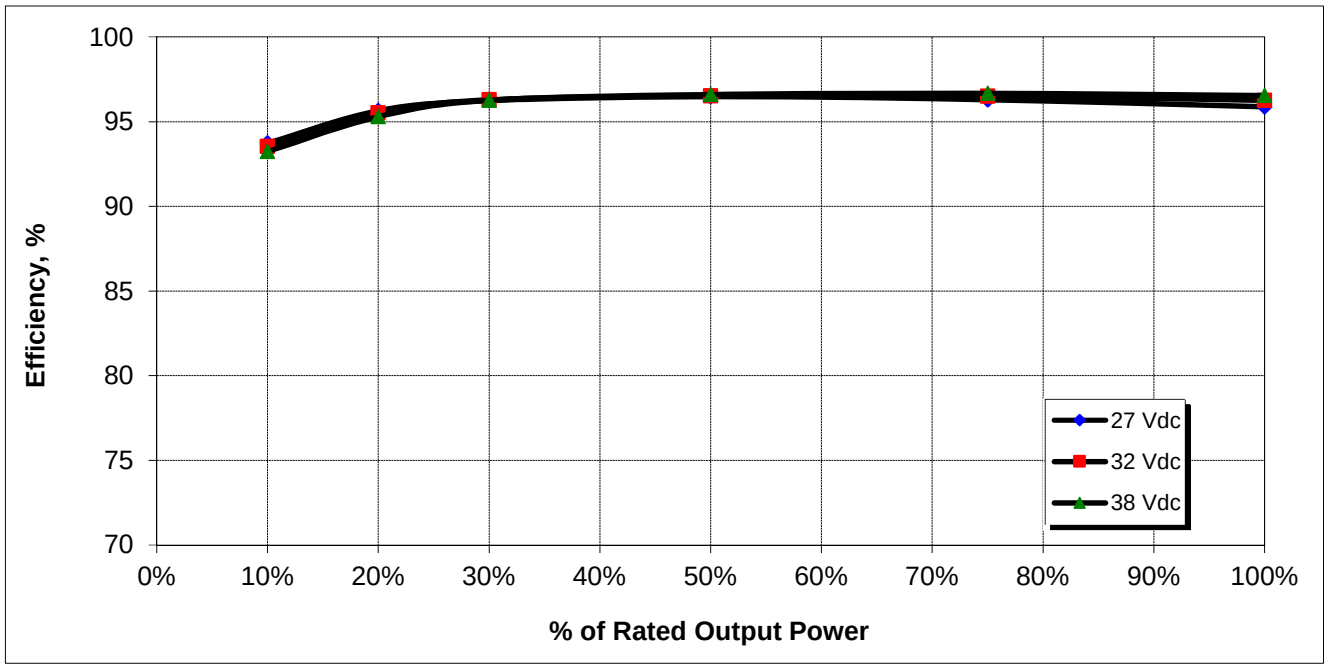
Model #: LM305UE-G1 (240V)

Rated Maximum Continuous Output Power: 305 W Night Tare Loss: -0.09 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		30.50	61.00	91.50	152.50	228.75	305.00	Wtd
Vmin	27	93.7	95.6	96.2	96.5	96.3	95.9	96.2
Vnom	32	93.5	95.5	96.3	96.5	96.5	96.3	96.3
Vmax	38	93.2	95.3	96.3	96.6	96.7	96.5	96.4

CEC Efficiency = 96.5%



Inverter Efficiency Data

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	30.378	27.011	93.711	30.371	27.011	93.740	30.390	27.010	93.728	30.375	27.008	93.732	30.383	27.010	93.741
20%	Vmin	66.772	27.091	95.632	66.807	27.090	95.634	66.823	27.091	95.641	66.848	27.090	95.651	66.853	27.092	95.649
30%	Vmin	98.647	27.067	96.230	98.677	27.070	96.229	98.703	27.067	96.236	98.710	27.068	96.236	98.719	27.070	96.245
50%	Vmin	166.730	27.020	96.463	166.741	27.019	96.465	166.773	27.021	96.471	166.779	27.021	96.473	166.817	27.020	96.477
75%	Vmin	214.643	27.082	96.287	214.696	27.081	96.295	214.694	27.085	96.292	214.755	27.083	96.300	214.757	27.082	96.305
100%	Vmin	290.221	27.033	95.888	290.227	27.032	95.888	290.241	27.032	95.888	290.193	27.031	95.886	290.226	27.031	95.885
10%	Vnom	30.291	32.036	93.506	30.299	32.036	93.523	30.297	32.035	93.519	30.308	32.037	93.545	30.299	32.034	93.524
20%	Vnom	66.772	32.112	95.500	66.797	32.112	95.518	66.785	32.111	95.518	66.803	32.113	95.510	66.816	32.110	95.508
30%	Vnom	98.637	32.095	96.282	98.644	32.092	96.289	98.666	32.092	96.289	98.689	32.092	96.291	98.697	32.093	96.295
50%	Vnom	166.717	32.052	96.508	166.768	32.049	96.509	166.786	32.052	96.511	166.798	32.049	96.505	166.836	32.049	96.512
75%	Vnom	214.320	32.024	96.497	214.324	32.025	96.494	214.363	32.025	96.498	214.395	32.024	96.501	214.404	32.021	96.501
100%	Vnom	290.120	31.979	96.259	290.088	31.979	96.260	290.064	31.978	96.259	290.074	31.979	96.259	290.047	31.977	96.258
10%	Vmax	30.326	38.052	93.228	30.326	38.053	93.226	30.322	38.054	93.213	30.329	38.054	93.223	30.334	38.054	93.224
20%	Vmax	66.700	38.037	95.274	66.700	38.037	95.291	66.741	38.036	95.286	66.708	38.035	95.284	66.756	38.036	95.308
30%	Vmax	98.689	38.020	96.253	98.700	38.020	96.256	98.709	38.021	96.255	98.726	38.019	96.259	98.743	38.021	96.261
50%	Vmax	166.753	38.083	96.596	166.771	38.085	96.591	166.811	38.082	96.602	166.833	38.080	96.604	166.829	38.082	96.611
75%	Vmax	214.363	38.060	96.663	214.341	38.060	96.667	214.381	38.059	96.676	214.427	38.060	96.676	214.399	38.060	96.681
100%	Vmax	290.226	38.024	96.545	290.199	38.024	96.541	290.185	38.024	96.548	290.172	38.026	96.548	290.178	38.025	96.546

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	30.394	27.009	93.754	30.387	27.009	93.723	30.390	27.011	93.743	30.388	27.009	93.758	30.384	27.008	93.746
20%	Vmin	66.865	27.090	95.646	66.879	27.092	95.654	66.899	27.093	95.663	66.895	27.091	95.659	66.901	27.091	95.651
30%	Vmin	98.741	27.070	96.244	98.737	27.069	96.243	98.762	27.069	96.250	98.774	27.070	96.255	98.789	27.070	96.254
50%	Vmin	166.842	27.019	96.475	166.846	27.023	96.484	166.881	27.020	96.484	166.887	27.020	96.483	166.907	27.019	96.482
75%	Vmin	214.777	27.082	96.301	214.800	27.083	96.306	214.818	27.083	96.311	214.828	27.084	96.314	214.870	27.083	96.314
100%	Vmin	290.173	27.028	95.886	290.199	27.031	95.886	290.185	27.032	95.881	290.155	27.032	95.880	290.142	27.033	95.879
10%	Vnom	30.310	32.037	93.536	30.318	32.038	93.553	30.303	32.036	93.543	30.309	32.036	93.546	30.306	32.036	93.541
20%	Vnom	66.842	32.112	95.517	66.859	32.112	95.517	66.860	32.110	95.521	66.883	32.109	95.533	66.870	32.112	95.527
30%	Vnom	98.702	32.092	96.297	98.732	32.091	96.302	98.733	32.092	96.305	98.762	32.093	96.307	98.777	32.095	96.310
50%	Vnom	166.844	32.051	96.512	166.887	32.051	96.516	166.903	32.051	96.516	166.920	32.052	96.519	166.964	32.051	96.525
75%	Vnom	214.414	32.024	96.505	214.430	32.021	96.506	214.451	32.025	96.513	214.455	32.023	96.513	214.482	32.023	96.507
100%	Vnom	290.013	31.977	96.252	290.022	31.980	96.256	290.045	31.979	96.252	290.038	31.981	96.247	289.969	31.977	96.250
10%	Vmax	30.334	38.054	93.232	30.339	38.052	93.264	30.341	38.055	93.246	30.333	38.054	93.232	30.342	38.056	93.247
20%	Vmax	66.769	38.038	95.294	66.741	38.037	95.293	66.752	38.038	95.302	66.796	38.037	95.306	66.807	38.035	95.312
30%	Vmax	98.744	38.022	96.268	98.749	38.020	96.276	98.752	38.020	96.271	98.777	38.019	96.266	98.782	38.021	96.273
50%	Vmax	166.879	38.080	96.609	166.892	38.082	96.606	166.883	38.082	96.611	166.916	38.082	96.615	166.943	38.082	96.614
75%	Vmax	214.428	38.061	96.677	214.467	38.061	96.677	214.448	38.058	96.683	214.468	38.064	96.682	214.500	38.059	96.682
100%	Vmax	290.167	38.022	96.544	290.203	38.025	96.540	290.174	38.026	96.541	290.190	38.025	96.539	290.192	38.025	96.539