Manufacturer: Silicon Energy, LLC

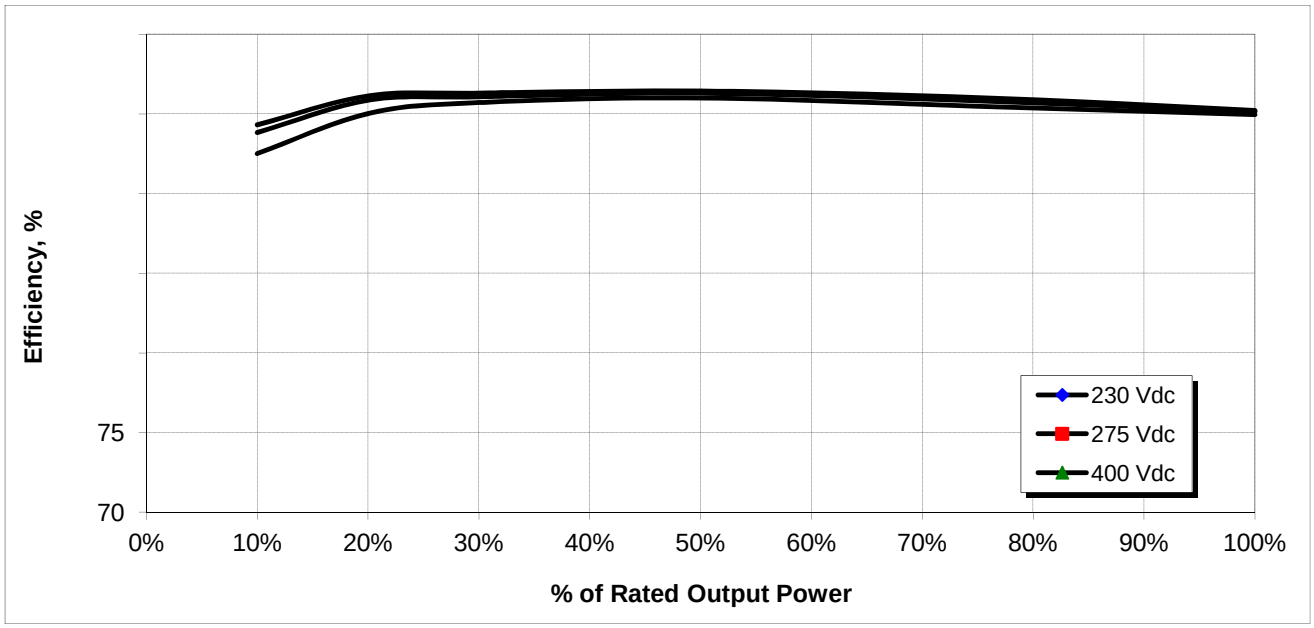
Model #: SiE 5300 (240V)

Rated Maximum Continuous Output Power: 5.3 kW Night Tare Loss: 14.00 W

Vmin: 230 Vdc Vnom: 275 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.53	1.06	1.59	2.65	3.98	5.30	Wtd
Vmin	230	94.3	96.1	96.3	96.4	96.0	95.2	96.0
Vnom	275	93.8	95.9	96.1	96.3	95.8	95.2	95.8
Vmax	400	92.5	95.0	95.7	96.0	95.5	94.9	95.4

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	530.00	230.00	94.30	530.00	230.00	94.30	530.00	230.00	94.31	530.00	230.00	94.31	530.00	230.00	94.31
20%	Vmin	1060.00	230.00	96.13	1060.00	230.00	96.13	1060.00	230.00	96.14	1060.00	230.00	96.14	1060.00	230.00	96.14
30%	Vmin	1592.00	231.00	96.29	1590.00	230.00	96.29	1587.00	230.00	96.32	1586.00	230.00	96.34	1591.00	230.00	96.34
50%	Vmin	2654.00	230.00	96.46	2654.00	230.00	96.46	2654.00	230.00	96.45	2654.00	230.00	96.42	2654.00	230.00	96.42
75%	Vmin	3977.00	230.00	95.96	3979.00	230.00	95.96	3976.00	230.00	96.06	3973.00	230.00	96.07	3974.00	230.00	96.12
100%	Vmin	5250.00	230.00	95.21	5250.00	230.00	95.21	5236.00	230.00	95.23	5235.00	230.00	95.22	5235.78	230.00	95.23
10%	Vnom	530.00	275.00	93.83	530.00	275.00	93.83	529.00	275.00	93.83	530.00	275.00	93.83	529.00	275.00	93.82
20%	Vnom	1061.00	275.00	95.88	1060.00	275.00	95.85	1060.00	275.00	95.86	1061.00	275.00	95.87	1061.00	275.00	95.86
30%	Vnom	1594.00	275.00	96.10	1588.00	275.00	96.08	1588.00	275.00	96.08	1588.00	275.00	96.06	1591.00	275.00	96.06
50%	Vnom	2648.00	275.00	96.32	2648.00	275.00	96.31	2649.00	275.00	96.30	2649.00	275.00	96.30	2649.00	275.00	96.31
75%	Vnom	3976.00	275.00	95.85	3978.00	275.00	95.84	3976.00	275.00	95.82	3976.00	275.00	95.82	3976.00	275.00	95.80
100%	Vnom	5255.00	272.00	95.15	5250.00	275.00	95.14	5235.00	275.00	95.16	5235.00	275.00	95.16	5235.00	275.00	95.16
10%	Vmax	531.00	400.00	92.50	531.00	400.00	92.50	531.00	400.00	92.49	530.00	400.00	92.49	530.00	400.00	92.49
20%	Vmax	1059.00	400.00	95.03	1060.00	400.00	95.01	1060.00	400.00	95.01	1060.00	400.00	95.00	1060.00	400.00	95.00
30%	Vmax	1587.00	400.00	95.71	1589.00	400.00	95.70	1588.00	400.00	95.70	1589.00	400.00	95.70	1589.00	400.00	95.71
50%	Vmax	2648.00	400.00	95.92	2648.00	400.00	96.00	2648.00	400.00	95.99	2651.00	400.00	96.03	2650.00	400.00	96.03
75%	Vmax	3977.00	400.00	95.50	3976.00	400.00	95.50	3976.00	400.00	95.49	3975.00	400.00	95.46	3974.00	400.00	95.43
100%	Vmax	5246.00	400.00	94.94	5252.00	400.00	94.93	5243.00	399.00	94.93	5268.00	400.00	94.95	5268.00	400.00	94.94

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															
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															