Manufacturer: Delta Energy Systems

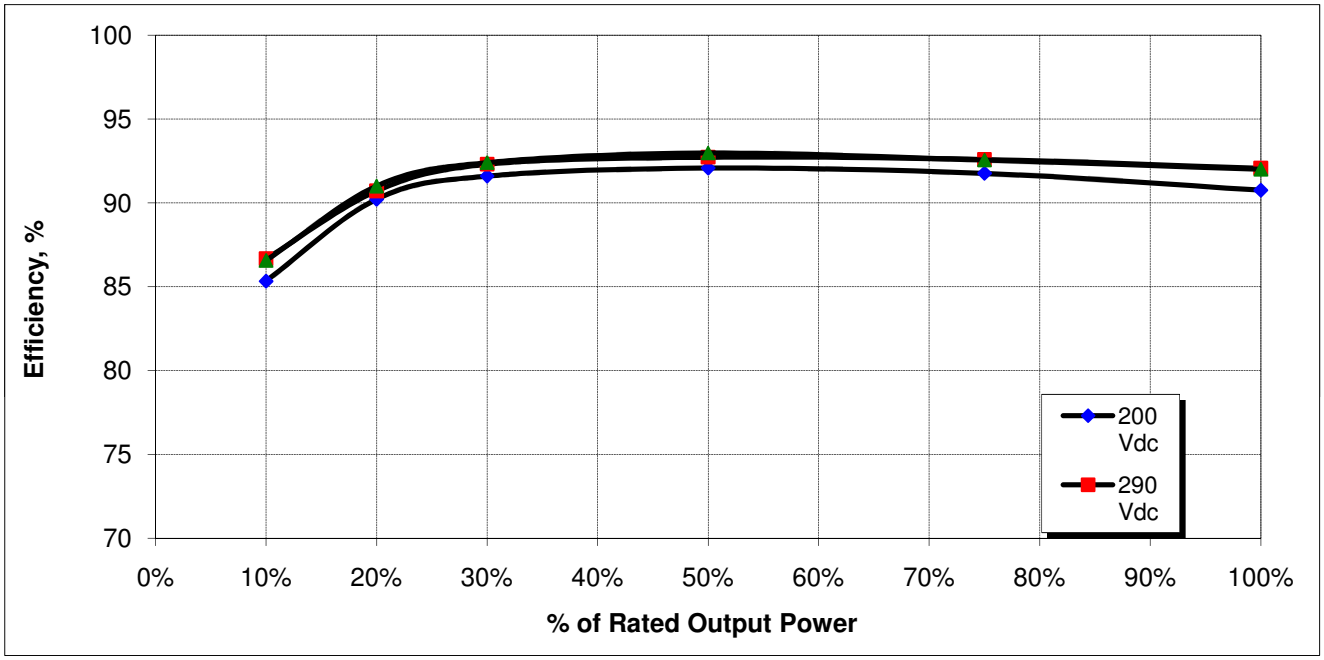
Model #: SI 2500 US (208V)

Rated Maximum Continuous Output Power: 2.50 kW Night Tare Loss: 0.32 W

Vmin: 200 Vdc Vnom: 290 Vdc Vmax: 320 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.25	0.50	0.75	1.25	1.88	2.50	Wtd
Vmin	200	85.3	90.2	91.6	92.1	91.8	90.8	91.4
Vnom	290	86.7	90.7	92.3	92.7	92.6	92.1	92.2
Vmax	320	86.6	91.0	92.4	93.0	92.5	92.0	92.3

CEC Efficiency = 92.0%



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	224.7	201.39	85.9	219.87	201.39	85.0	222.1	201.07	84.8	221.7	200.43	85.0	225.8	200.47	85.9
20%	Vmin	496.67	201.09	90.2	495.2	201.25	90.0	498.1	201.43	90.3	498.4	201.47	90.4	498.4	201.52	90.4
30%	Vmin	763.63	201.64	91.6	764.9	201.52	91.6	764.7	201.54	91.6	763.6	201.34	91.6	762.7	201.27	91.5
50%	Vmin	1283	201.32	92.0	1282.8	201.34	92.1	1284	201.38	92.2	1284	201.31	92.1	1283	201.46	92.1
75%	Vmin	1841.7	201.61	91.7	1843.1	201.59	91.8	1841	201.63	91.8	1841	201.63	91.7	1841	201.6	91.8
100%	Vmin	2481	200.07	90.9	2474.7	200.16	90.8	2469	200.23	90.8	2464	200.31	90.7	2464	200.27	90.7
10%	Vnom	224.23	291.04	86.1	222.5	289.93	86.6	227.6	290.88	86.7	223.7	291.62	86.4	226.2	291.33	86.9
20%	Vnom	468.37	289.87	90.3	474.33	289.92	90.7	477.4	289.78	91.2	469	289.8	90.9	470.3	290.29	90.5
30%	Vnom	746.6	290.88	92.0	744.9	289.9	92.4	751.4	289.22	92.4	746.9	289.01	92.4	747.3	289.48	92.3
50%	Vnom	1223	289.2	92.8	1227.2	289.34	92.7	1227	289.43	92.8	1228	289.41	92.8	1225	288.95	92.7
75%	Vnom	1838.7	288.99	92.6	1839.8	288.85	92.6	1836	289	92.6	1840	288.91	92.6	1840	288.82	92.5
100%	Vnom	2467.7	289.68	92.2	2466.3	289.64	92.0	2463	289.64	92.0	2469	289.62	92.2	2472	289.62	92.3
10%	Vmax	232.97	312.37	86.9	221.43	313.34	85.3	225	315.44	85.1	229.9	314.95	87.6	236.1	314.84	88.7
20%	Vmax	496.5	317.95	91.1	496.1	317.85	91.1	497.2	318.57	91.0	492.6	318.42	90.6	491.7	318.46	90.8
30%	Vmax	740.77	319.56	92.4	742.7	319.95	92.5	737.5	320.22	92.4	736.1	320.43	92.2	741.5	319.87	92.4
50%	Vmax	1258.7	320.99	92.9	1261.1	319.88	93.1	1258	320.16	93.1	1256	320.03	92.9	1262	321.34	92.9
75%	Vmax	1890	320.11	92.6	1864.3	320.88	92.7	1869	320.88	92.5	1869	320.62	92.5	1862	320.62	92.5
100%	Vmax	2456.7	320.87	92.0	2460	320.83	92.1	2453	320.9	92.0	2467	320.7	91.9	2470	320.7	92.0

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	224.2	201.23	85.5	222.33	201.27	85.2									
20%	Vmin	497.03	201.5	90.1	497.2	201.51	90.2									
30%	Vmin	765.3	201.54	91.6	764.7	201.35	91.7									
50%	Vmin	1282.4	201.32	92.0	1282.3	201.36	92.1									
75%	Vmin	1843.9	201.6	91.8	1843.9	201.63	91.8									
100%	Vmin	2463.3	200.3	90.7	2463	200.27	90.7									
10%	Vnom	220.97	287.42	86.8	220.47	288.92	87.0									
20%	Vnom	475.93	289.96	90.4	466.63	290.28	91.1									
30%	Vnom	748.33	289.78	92.2	749.6	288.85	92.4									
50%	Vnom	1221	288.84	92.7	1225.6	289.55	92.7									
75%	Vnom	1837.2	288.83	92.6	1836.7	288.85	92.6									
100%	Vnom	2458.7	289.69	92.0	2454.7	289.72	91.9									
10%	Vmax	226	317.92	86.7	230.77	317.29	85.7									
20%	Vmax	496.87	318.41	91.4	498.87	318.33	91.0									
30%	Vmax	742.83	319.64	92.5	740.1	320.18	92.4									
50%	Vmax	1268.3	320.71	93.0	1261.9	320.05	92.9									
75%	Vmax	1874	320.83	92.5	1871.7	320.74	92.5									
100%	Vmax	2468.3	320.74	92.1	2456.3	320.85	92.0									