Manufacturer: Dow Chemical

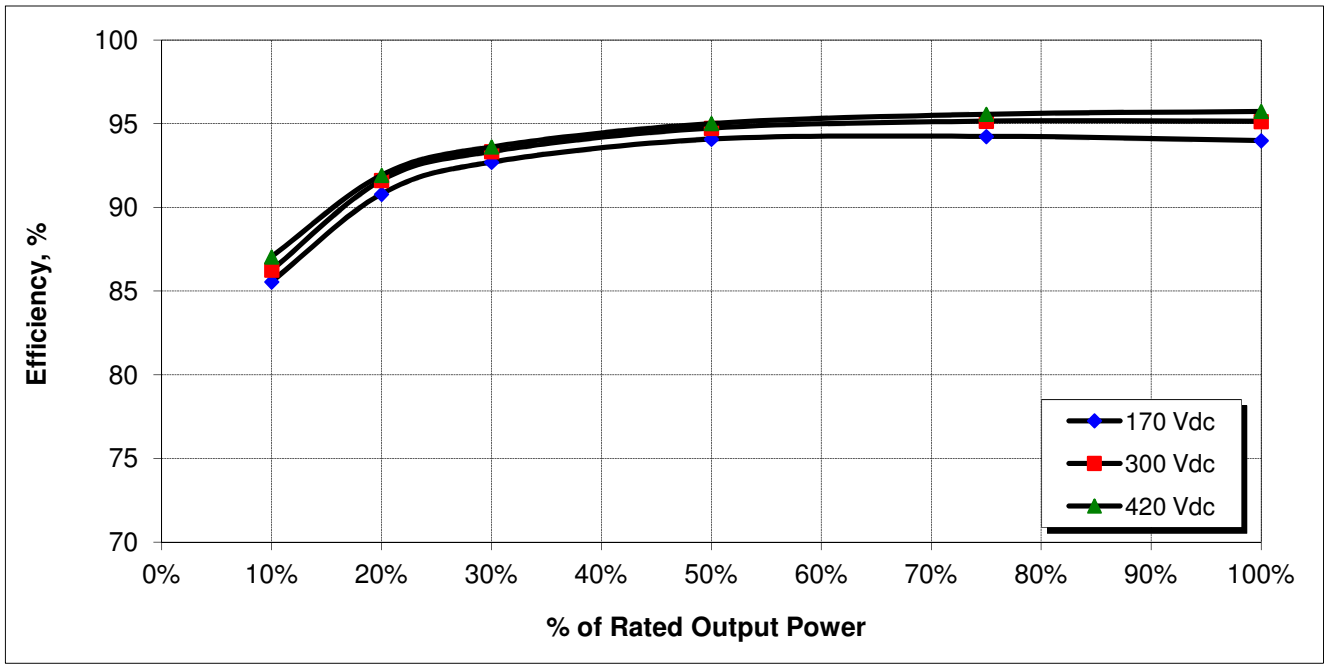
Model #: 362590

Rated Maximum Continuous Output Power: 3.530 kW Night Tare Loss: -1.42 W

Vmin: 170 Vdc Vnom: 300 Vdc Vmax: 420 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.35	0.71	1.06	1.77	2.65	3.53	Wtd
Vmin	170	85.6	90.8	92.7	94.1	94.2	94.0	93.5
Vnom	300	86.3	91.6	93.3	94.7	95.1	95.1	94.3
Vmax	420	87.0	91.9	93.6	95.0	95.6	95.7	94.7

CEC Efficiency = 94.0%



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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.3131	170.92	85.528	0.313	170.92	85.601	0.313	170.92	85.567	0.313	170.93	85.591	0.313	170.92	85.475
20%	Vmin	0.6869	170.82	90.792	0.687	170.81	90.857	0.686	170.81	90.702	0.688	170.81	90.93	0.686	170.81	90.671
30%	Vmin	1.0453	170.72	92.701	1.046	170.73	92.713	1.046	170.72	92.769	1.045	170.73	92.66	1.044	170.73	92.624
50%	Vmin	1.7668	170.56	94.094	1.766	170.56	94.027	1.766	170.55	94.033	1.767	170.55	94.099	1.766	170.55	94.09
75%	Vmin	2.6599	170.33	94.2	2.661	170.33	94.247	2.661	170.33	94.256	2.661	170.33	94.25	2.66	170.33	94.226
100%	Vmin	3.5232	170.12	94.013	3.523	170.12	94.004	3.521	170.12	93.982	3.52	170.12	93.952	3.522	170.12	93.985
10%	Vnom	0.3172	300.59	86.347	0.317	300.59	86.091	0.317	300.58	86.277	0.318	300.59	86.326	0.317	300.58	86.223
20%	Vnom	0.6976	300.53	91.622	0.698	300.53	91.739	0.697	300.52	91.54	0.698	300.52	91.662	0.697	300.52	91.506
30%	Vnom	1.0558	300.51	93.244	1.057	300.51	93.36	1.056	300.5	93.333	1.057	300.49	93.42	1.056	300.48	93.305
50%	Vnom	1.7735	300.39	94.786	1.773	300.39	94.708	1.773	300.39	94.772	1.772	300.39	94.677	1.773	300.4	94.714
75%	Vnom	2.6783	300.26	95.103	2.681	300.26	95.202	2.678	300.26	95.103	2.68	300.27	95.168	2.679	300.27	95.127
100%	Vnom	3.5109	300.11	95.147	3.511	300.1	95.135	3.51	300.11	95.125	3.51	300.12	95.12	3.51	300.12	95.124
10%	Vmax	0.3201	420.83	87.116	0.32	420.84	87.038	0.319	420.83	87.031	0.32	420.82	87.057	0.32	420.84	87.007
20%	Vmax	0.6909	420.79	91.874	0.692	420.79	91.989	0.691	420.78	91.856	0.691	420.79	91.975	0.691	420.78	91.916
30%	Vmax	1.0577	420.75	93.593	1.057	420.74	93.597	1.058	420.74	93.638	1.056	420.75	93.527	1.059	420.75	93.718
50%	Vmax	1.7805	420.66	95.034	1.781	420.66	94.99	1.782	420.65	95.015	1.782	420.66	95.023	1.781	420.65	95.02
75%	Vmax	2.6839	420.57	95.596	2.683	420.56	95.586	2.685	420.56	95.595	2.686	420.56	95.615	2.682	420.56	95.448
100%	Vmax	3.5499	420.47	95.459	3.561	420.48	95.785	3.56	420.47	95.798	3.561	420.47	95.803	3.561	420.48	95.843

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
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															