Manufacturer: Dow Chemical

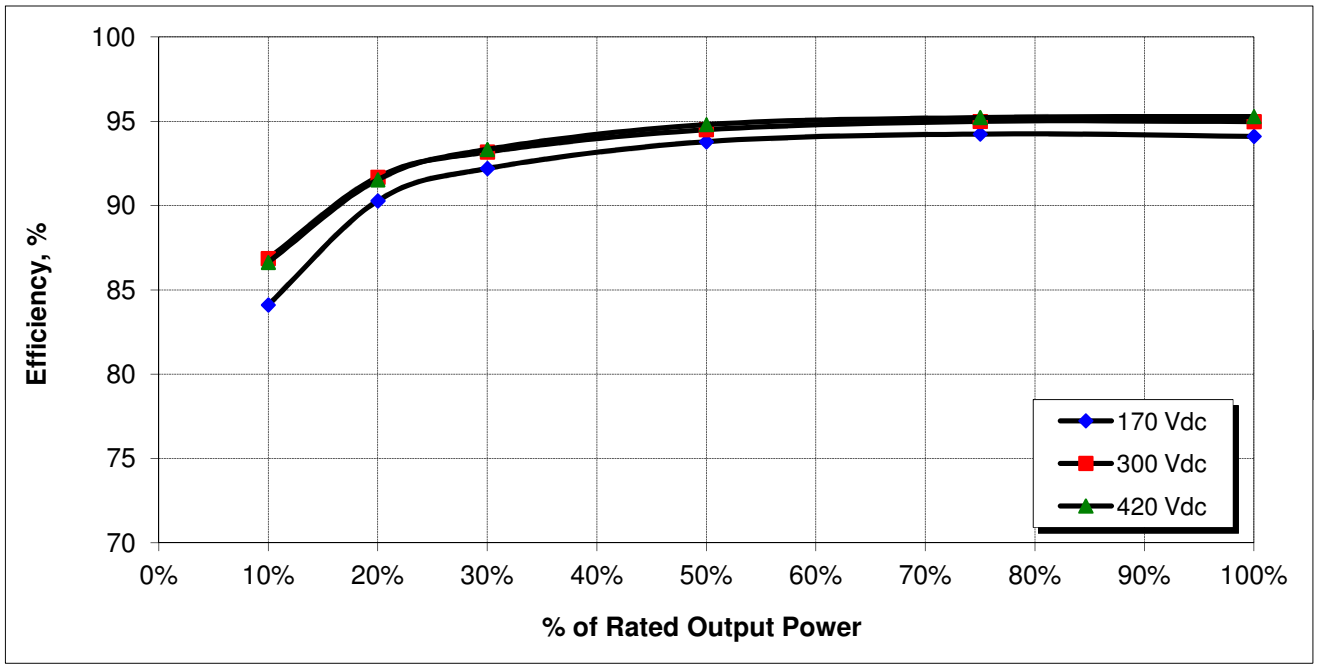
Model #: SPV-3.5AIUS0404 (Dow P/N 362591)

Rated Maximum Continuous Output Power: 3.54 kW Night Tare Loss: -1.14 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	3.54	Wtd
Vmin	170	84.1	90.3	92.2	93.8	94.2	94.1	93.3
Vnom	300	86.9	91.7	93.2	94.5	95.0	95.0	94.2
Vmax	420	86.6	91.5	93.3	94.8	95.2	95.3	94.4

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	0.3104	170.85	84.249	0.309	170.85	83.807	0.311	170.85	84.28	0.31	170.84	84.297	0.308	170.85	83.932
20%	Vmin	0.6793	170.75	90.247	0.68	170.75	90.256	0.68	170.75	90.316	0.68	170.75	90.263	0.681	170.75	90.338
30%	Vmin	1.0651	170.67	92.239	1.064	170.67	92.174	1.064	170.66	92.175	1.064	170.67	92.232	1.064	170.66	92.186
50%	Vmin	1.7632	170.51	93.767	1.765	170.51	93.837	1.763	170.51	93.747	1.763	170.51	93.802	1.763	170.51	93.797
75%	Vmin	2.6521	170.33	94.204	2.655	170.33	94.307	2.652	170.32	94.216	2.653	170.32	94.262	2.652	170.33	94.218
100%	Vmin	3.5214	170.12	94.084	3.525	170.13	94.174	3.52	170.13	94.039	3.524	170.13	94.15	3.522	170.12	94.093
10%	Vnom	0.3171	300.58	86.65	0.318	300.57	86.822	0.318	300.57	86.749	0.319	300.57	87.076	0.32	300.57	87.027
20%	Vnom	0.7345	300.5	91.794	0.732	300.5	91.639	0.735	300.5	91.787	0.733	300.5	91.666	0.732	300.5	91.546
30%	Vnom	1.0545	300.46	93.157	1.056	300.46	93.209	1.055	300.46	93.096	1.055	300.46	93.187	1.056	300.46	93.246
50%	Vnom	1.8102	300.35	94.441	1.812	300.35	94.463	1.814	300.35	94.543	1.814	300.35	94.521	1.814	300.35	94.532
75%	Vnom	2.6672	300.26	94.992	2.668	300.25	94.978	2.668	300.25	94.968	2.668	300.25	95.004	2.67	300.25	95.008
100%	Vnom	3.5161	300.15	94.957	3.517	300.15	94.995	3.516	300.14	94.978	3.517	300.14	95.004	3.518	300.14	94.991
10%	Vmax	0.3195	420.58	86.683	0.32	420.59	86.717	0.319	420.58	86.404	0.32	420.58	86.731	0.319	420.59	86.644
20%	Vmax	0.692	420.52	91.487	0.692	420.53	91.49	0.693	420.54	91.635	0.694	420.53	91.571	0.693	420.53	91.497
30%	Vmax	1.0546	420.48	93.408	1.053	420.48	93.269	1.054	420.48	93.368	1.053	420.48	93.256	1.054	420.48	93.348
50%	Vmax	1.8046	420.4	94.745	1.806	420.4	94.848	1.807	420.4	94.823	1.809	420.4	94.895	1.805	420.4	94.711
75%	Vmax	2.6688	420.32	95.179	2.669	420.31	95.145	2.669	420.33	95.206	2.675	420.33	95.338	2.67	420.32	95.231
100%	Vmax	3.5414	420.24	95.281	3.54	420.24	95.238	3.54	420.24	95.242	3.543	420.24	95.324	3.542	420.24	95.336

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															