Manufacturer: Shenzhen Sinexcel Electric Co., Ltd.

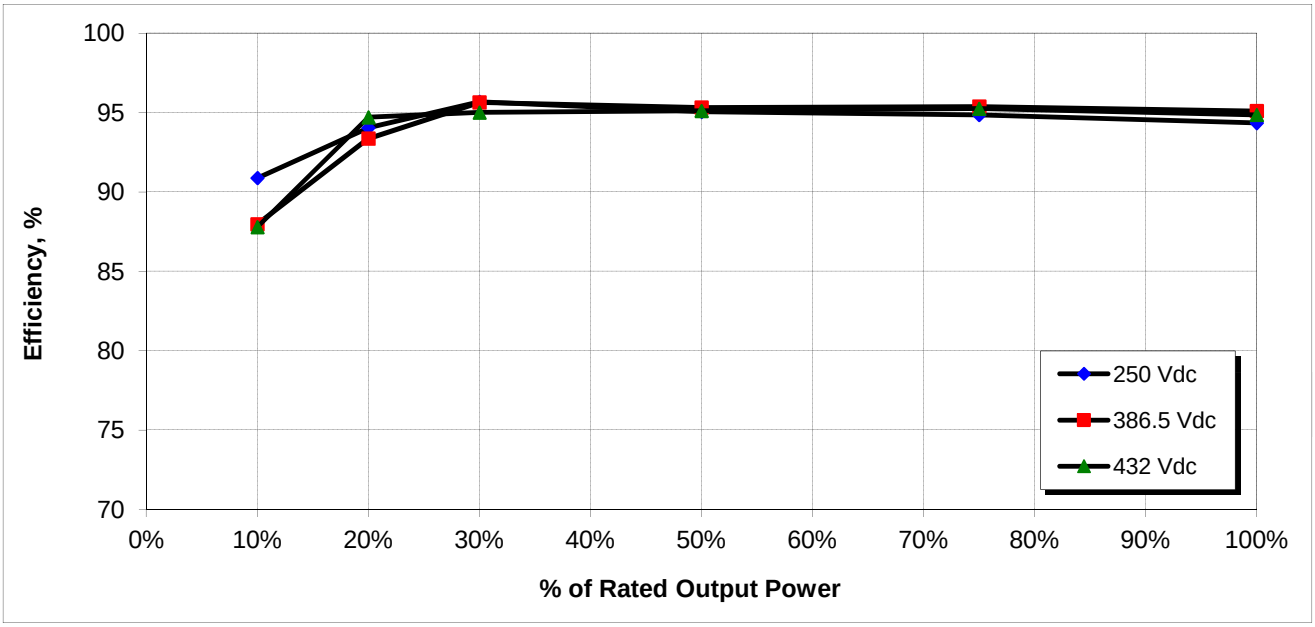
Model #: Rainbow PVI-12.5-I-US

Rated Maximum Continuous Output Power: 12514.50 W Night Tare Loss: 0.10 W

Vmin: 250 Vdc Vnom: 386.5 Vdc Vmax: 432 Vdc

		Power Level (%; W)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1251.45	2502.90	3754.35	6257.25	9385.88	12514.50	Wtd
Vmin	250	90.9	94.0	95.7	95.1	94.9	94.3	94.8
Vnom	386.5	88.0	93.4	95.6	95.3	95.4	95.1	95.0
Vmax	432	87.8	94.7	95.0	95.1	95.2	94.9	94.8

CEC Efficiency = 95.0%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	1103.5	250.64	90.850	1104	250.62	91.170	1105	250.63	90.299	1103	250.59	91.031	1105	250.59	91.050
20%	Vmin	2516.8	252.5	93.569	2517	252.4	94.087	2518	252.4	94.124	2518	252.45	94.141	2519	252.42	94.289
30%	Vmin	3794	251.48	95.379	3792	251.21	95.862	3794	251.34	95.766	3793	251.32	95.505	3793	251.22	95.918
50%	Vmin	6299.5	255.57	94.957	6293	255.65	95.105	6300	255.79	95.145	6298	255.62	94.960	6295	255.67	95.112
75%	Vmin	9386.2	253.29	94.864	9373	253.57	94.825	9399	255.48	94.867	9382	255.38	94.814	9362	255.27	94.910
100%	Vmin	12126	254.85	94.311	12120	254.76	94.382	12120	254.72	94.294	12121	254.86	94.400	12121	254.78	94.354
10%	Vnom	1184.1	386.04	88.329	1185	385.99	87.049	1184	386.03	88.463	1186	386	88.430	1183	386.04	87.588
20%	Vnom	2480.7	383.48	93.149	2480	383.46	93.396	2479	383.52	93.500	2481	383.49	93.405	2480	383.47	93.379
30%	Vnom	3771.1	385.13	96.000	3771	385.12	95.401	3768	385.2	95.682	3771	385.11	95.345	3774	385.11	95.793
50%	Vnom	6281	380.93	95.363	6281	380.85	95.209	6280	380.93	95.237	6282	381.03	95.450	6282	380.95	95.373
75%	Vnom	9418.9	380.69	95.512	9418	380.55	95.208	9419	380.65	95.409	9418	380.65	95.378	9419	380.72	95.411
100%	Vnom	12562	385.98	95.205	12558	385.91	95.138	12553	385.99	95.077	12552	385.99	95.033	12547	385.95	95.071
10%	Vmax	1136.2	432.38	86.976	1138	432.41	87.559	1137	432.4	87.228	1137	432.43	88.279	1135	432.42	88.921
20%	Vmax	2526.1	434.21	94.763	2523	434.27	94.388	2524	434.23	94.141	2524	434.26	95.006	2525	434.25	95.255
30%	Vmax	3779.1	432.39	95.006	3775	432.4	94.758	3778	432.43	95.174	3778	432.41	95.343	3775	432.31	94.766
50%	Vmax	6278.5	425.65	95.098	6280	425.74	95.031	6282	425.68	95.075	6282	425.69	95.134	6281	425.7	95.232
75%	Vmax	9423.1	425.66	95.172	9424	425.65	95.338	9426	425.66	95.256	9425	425.55	95.237	9420	425.7	95.234
100%	Vmax	12558	425.19	94.831	12555	425.06	94.920	12558	425.19	94.829	12553	425.28	94.862	12559	425.23	94.834

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															
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															