Manufacturer: Motech Industries Inc.

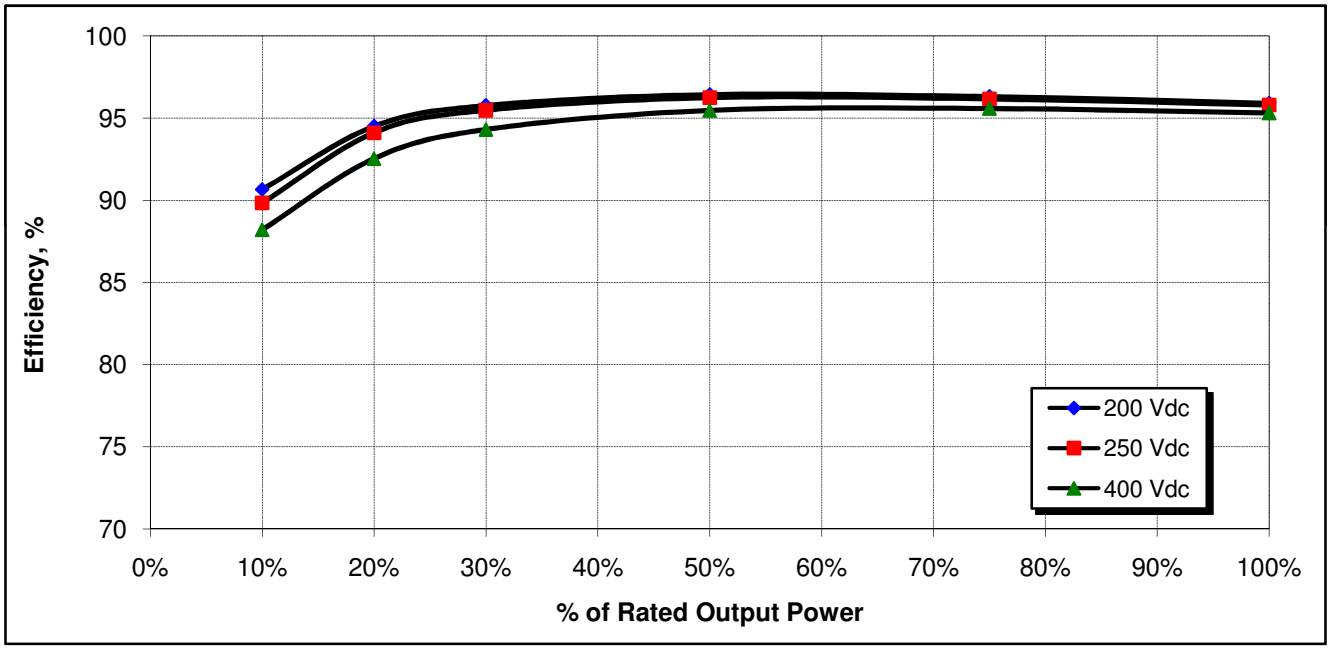
Model #: PVMate 2900U (208V)

Rated Maximum Continuous Output Power: 2.70 kW Night Tare Loss: 10.60 W

Vmin: 200 Vdc Vnom: 250 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.27	0.54	0.81	1.35	2.03	2.70	Wtd
Vmin	200	90.7	94.5	95.8	96.4	96.3	95.9	95.9
Vnom	250	89.8	94.1	95.5	96.2	96.2	95.8	95.7
Vmax	400	88.2	92.5	94.3	95.5	95.6	95.3	94.9

CEC Efficiency = 95.5%



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	272.22	200.30	90.680	272.14	200.30	90.661	272.11	200.31	90.652	272.20	200.31	90.664	272.21	200.31	90.648
20%	Vmin	539.02	200.33	94.505	272.22	200.33	94.510	539.07	200.33	94.508	539.08	200.34	94.510	538.91	200.34	94.496
30%	Vmin	810.94	200.35	95.756	811.15	200.35	95.773	811.09	200.36	95.770	811.01	200.36	95.773	811.01	200.36	95.774
50%	Vmin	1350.30	200.42	96.438	1350.30	200.42	96.438	1350.31	200.42	96.438	1350.31	200.42	96.436	1350.38	200.43	96.435
75%	Vmin	2024.29	200.45	96.307	2024.38	200.45	96.310	2024.28	200.45	96.309	2024.39	200.45	96.314	2024.26	200.45	96.309
100%	Vmin	2705.62	200.43	95.911	2705.61	200.43	95.911	2705.49	200.43	95.913	2705.30	200.42	95.914	2705.35	200.43	95.915
10%	Vnom	269.36	250.51	89.807	269.52	269.36	89.867	269.53	250.51	89.865	269.54	250.52	89.847	269.60	250.51	89.859
20%	Vnom	541.82	250.53	94.099	541.82	250.53	94.103	541.91	250.53	94.109	541.91	250.52	94.119	541.78	250.52	94.109
30%	Vnom	810.32	250.49	95.472	810.24	250.50	95.469	810.31	250.50	95.478	810.26	250.50	95.475	810.34	250.50	95.471
50%	Vnom	1349.04	250.53	96.241	1348.91	250.52	96.241	1348.96	250.52	96.243	1348.92	250.52	96.240	1348.88	250.52	96.236
75%	Vnom	2020.29	250.47	96.161	2020.34	250.47	96.162	2020.39	250.48	96.162	2020.34	250.48	96.162	2020.46	250.48	96.165
100%	Vnom	2706.40	250.47	95.799	2706.21	250.46	95.796	2706.21	250.46	95.796	2706.00	250.45	95.795	2706.07	250.44	95.792
10%	Vmax	269.72	399.65	88.219	269.73	399.65	88.204	269.80	399.65	88.202	269.71	399.66	88.206	269.66	399.66	88.183
20%	Vmax	539.30	399.70	92.505	539.23	399.69	92.541	539.21	399.70	92.540	539.28	399.68	92.544	539.19	399.67	92.532
30%	Vmax	812.62	399.65	94.312	812.61	399.65	94.311	812.59	399.66	94.298	812.59	399.66	94.299	812.64	399.67	94.312
50%	Vmax	1348.53	399.67	95.474	1348.51	399.67	95.469	1348.41	399.67	95.460	1348.59	399.67	95.462	1348.63	399.66	95.462
75%	Vmax	2023.58	399.57	95.578	2023.64	399.56	95.582	2023.62	399.56	95.583	2023.53	399.55	95.586	2023.54	399.55	95.586
100%	Vmax	2692.24	399.52	95.314	2692.12	399.51	95.310	2692.06	399.51	95.309	2692.00	399.51	95.308	2691.86	399.50	95.306

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															