Manufacturer: Motech Industries Inc.

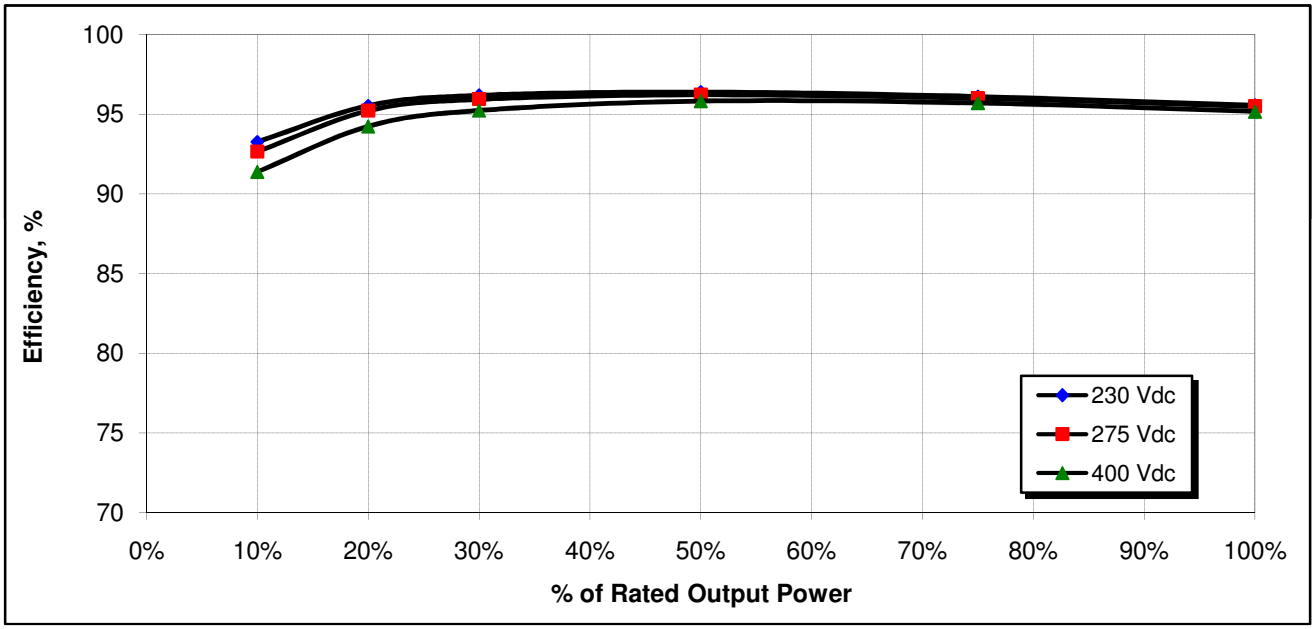
Model #: PVMate 4900U (208V)

Rated Maximum Continuous Output Power: 4.3 kW Night Tare Loss: 13.95 W

Vmin: 230 Vdc Vnom: 275 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.43	0.86	1.29	2.15	3.23	4.30	Wtd
Vmin	230	93.3	95.5	96.2	96.4	96.1	95.6	96.0
Vnom	275	92.7	95.2	95.9	96.2	96.0	95.5	95.8
Vmax	400	91.4	94.2	95.2	95.8	95.7	95.2	95.4

CEC Efficiency = 96.0%



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	430	230	93.285	430	230	93.281	430	230	93.266	430	230	93.267	430	230	93.268
20%	Vmin	860	230	95.548	860	230	95.542	860	230	95.538	860	230	95.539	860	230	95.540
30%	Vmin	1290	230	96.191	1290	230	96.191	1290	230	96.192	1290	230	96.197	1290	230	96.198
50%	Vmin	2150	230	96.408	2150	230	96.404	2150	230	96.400	2150	230	96.400	2150	230	96.399
75%	Vmin	3225	230	96.131	3225	230	96.127	3225	230	96.121	3225	230	96.113	3225	230	96.094
100%	Vmin	4243	230	95.557	4244	230	95.577	4244	230	95.584	4244	230	95.575	4242	230	95.568
10%	Vnom	430	275	92.650	430	275	92.659	430	275	92.668	430	275	92.654	430	275	92.653
20%	Vnom	860	275	95.222	860	275	95.221	860	275	95.229	860	275	95.227	860	275	95.226
30%	Vnom	1290	275	95.954	1290	275	95.945	1290	275	95.938	1290	275	95.939	1290	275	95.939
50%	Vnom	2150	275	96.215	2150	275	96.228	2150	275	96.221	2150	275	96.229	2150	275	96.231
75%	Vnom	3225	275	96.011	3225	275	96.007	3225	275	96.001	3225	275	95.993	3225	275	95.990
100%	Vnom	4245	275	95.482	4245	275	95.487	4245	275	95.487	4246	275	95.509	4245	275	95.507
10%	Vmax	430	400	91.372	430	400	91.381	430	400	91.371	430	400	91.384	430	400	91.384
20%	Vmax	860	400	94.244	860	400	94.237	860	400	94.227	860	400	94.224	860	400	94.223
30%	Vmax	1290	400	95.243	1290	400	95.236	1290	400	95.220	1290	400	95.217	1290	400	95.216
50%	Vmax	2150	400	95.806	2150	400	95.825	2150	400	95.820	2150	400	95.816	2150	400	95.813
75%	Vmax	3225	400	95.702	3325	400	95.696	3325	400	95.686	3225	400	95.706	3325	400	95.706
100%	Vmax	4254	400	95.150	4253	400	95.169	4252	400	95.152	4253	400	95.187	4245	400	95.166

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															