Manufacturer: TMEIC

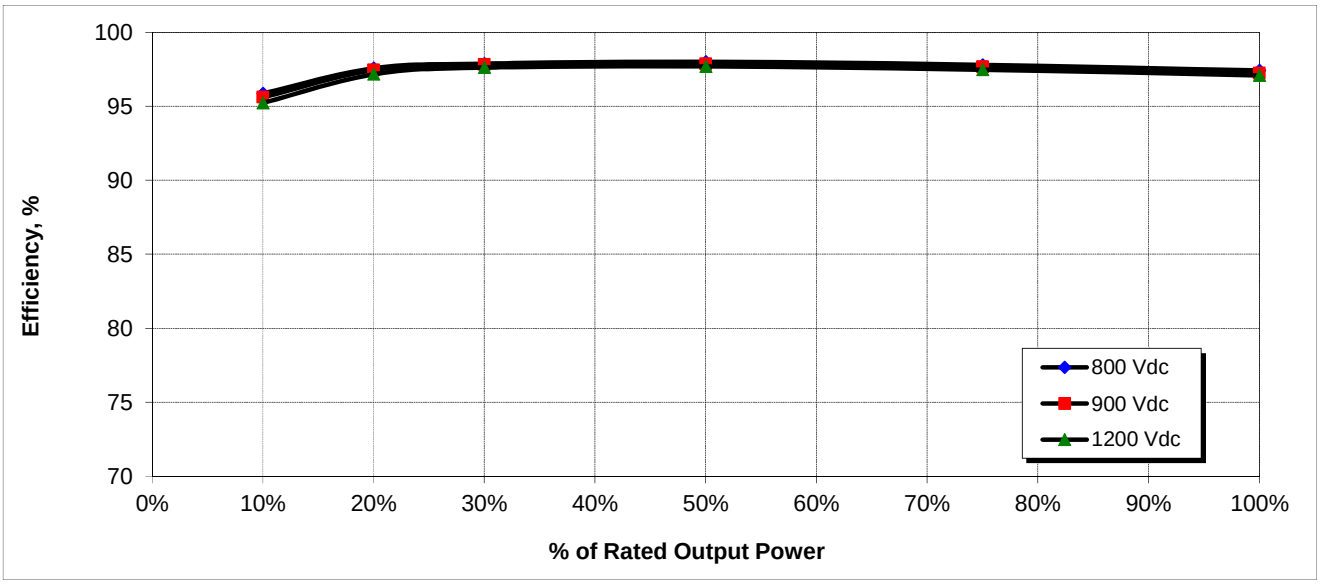
Model #: PVH-L2500GR-EG

Rated Maximum Continuous Output Power: 2500.0 kW Night Tare Loss: -235 W

Vmin: 800 Vdc Vnom: 900 Vdc Vmax: 1200 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		250.00	500.00	750.00	1250.00	1875.00	2500.00	Wtd
Vmin	800	95.9	97.6	97.9	98.0	97.8	97.4	97.8
Vnom	900	95.6	97.5	97.8	97.9	97.7	97.2	97.6
Vmax	1200	95.2	97.2	97.6	97.7	97.5	97.1	97.4

CEC Efficiency of Inverter and MV TP1 Transformer = 97.5%



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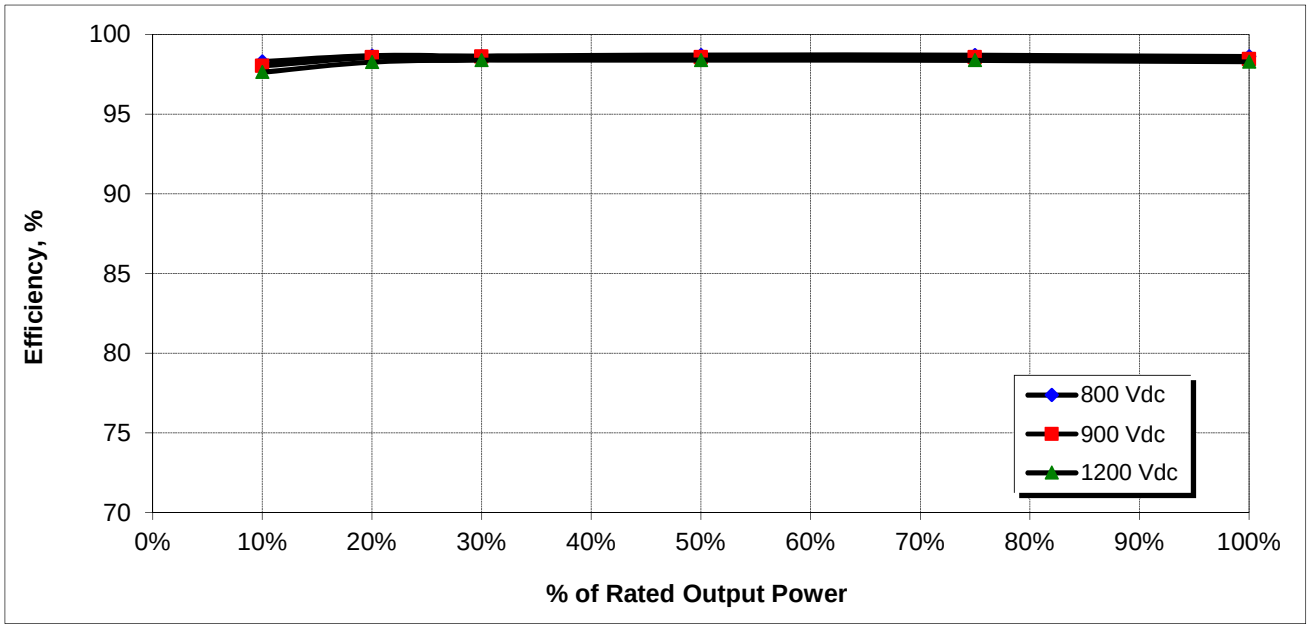
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		250.00	500.00	750.00	1250.00	1875.00	2500.00	Wtd
Vmin	800	98.3	98.7	98.6	98.7	98.7	98.6	98.7
Vnom	900	98.0	98.5	98.6	98.6	98.6	98.4	98.5
Vmax	1200	97.6	98.3	98.4	98.4	98.4	98.3	98.3

Inverter Efficiency only = 98.5%



2.7MVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		250.00	500.00	750.00	1250.00	1875.00	2500.00	Wtd
Vmin	800	97.55	98.89	99.23	99.30	99.10	98.79	99.07
Vnom	900	97.55	98.89	99.23	99.30	99.10	98.79	99.07
Vmax	1200	97.55	98.89	99.23	99.30	99.10	98.79	99.07

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	247740.0	802.1	98.29	247678.7	802.1	98.29	248373.7	802.1	98.31	247196.7	802.1	98.31	247881.7	802.1	98.29
20%	Vmin	547132.7	801.5	98.67	548198.3	801.5	98.66	547303.7	801.5	98.65	547835.7	801.5	98.67	546538.7	801.5	98.66
30%	Vmin	809623.3	800.9	98.65	809329.3	800.9	98.65	808845.3	800.9	98.63	808861.7	800.9	98.65	809562.0	800.9	98.64
50%	Vmin	1126136.7	800.1	98.69	1126183.3	800.1	98.72	1127033.3	800.1	98.73	1126553.3	800.1	98.73	1126403.3	800.1	98.71
75%	Vmin	1753536.7	800.9	98.73	1753850.0	800.9	98.71	1751743.3	800.9	98.70	1753100.0	800.9	98.70	1753786.7	800.9	98.69
100%	Vmin	2379163.3	801.5	98.64	2378120.0	801.5	98.63	2379046.7	801.5	98.61	2378006.7	801.5	98.64	2379006.7	801.5	98.60
10%	Vnom	247275.0	902.3	98.02	247323.3	902.3	98.00	247270.0	902.3	98.02	247151.3	902.3	98.02	247193.7	902.3	98.02
20%	Vnom	547419.7	901.7	98.53	547388.7	901.7	98.54	547196.0	901.7	98.52	547513.3	901.7	98.56	547282.0	901.7	98.57
30%	Vnom	809753.3	901.2	98.59	809800.3	901.2	98.60	809882.7	901.2	98.58	809785.7	901.2	98.59	809831.7	901.2	98.58
50%	Vnom	1126613.3	900.6	98.55	1126416.7	900.5	98.57	1126393.3	900.6	98.57	1126413.3	900.6	98.56	1126536.7	900.6	98.54
75%	Vnom	1754850.0	901.0	98.54	1754906.7	901.0	98.55	1754770.0	901.0	98.56	1754293.3	901.0	98.58	1754833.3	901.0	98.56
100%	Vnom	2376573.3	900.4	98.44	2376736.7	900.4	98.44	2377013.3	900.4	98.41	2376993.3	900.4	98.42	2376900.0	900.4	98.41
10%	Vmax	248189.7	1201.8	97.62	248255.0	1201.8	97.64	248055.3	1201.8	97.61	248068.7	1201.8	97.60	248244.0	1201.8	97.63
20%	Vmax	549029.0	1201.5	98.28	549018.0	1201.5	98.25	548963.0	1201.5	98.28	548899.7	1201.6	98.25	549019.7	1201.6	98.25
30%	Vmax	811773.7	1201.3	98.40	811927.0	1201.2	98.39	811694.0	1201.3	98.38	811791.3	1201.3	98.37	811705.7	1201.3	98.37
50%	Vmax	1126356.7	1200.9	98.39	1126413.3	1200.9	98.40	1126226.7	1200.9	98.38	1126336.7	1200.9	98.38	1126500.0	1200.9	98.39
75%	Vmax	1755506.7	1201.5	98.37	1755603.3	1201.5	98.38	1755590.0	1201.4	98.37	1755760.0	1201.5	98.37	1755673.3	1201.5	98.36
100%	Vmax	2377306.7	1201.2	98.26	2376706.7	1201.3	98.29	2376436.7	1201.2	98.29	2377216.7	1201.2	98.28	2376973.3	1201.2	98.28

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	248346.3	802.1	98.26	247526.7	802.1	98.27									
20%	Vmin	546425.7	801.5	98.67	546686.7	801.5	98.69									
30%	Vmin	809216.3	800.9	98.64	808960.0	800.9	98.64									
50%	Vmin	1126736.7	800.1	98.67	1126810.0	800.1	98.69									
75%	Vmin	1752903.3	800.9	98.67	1753686.7	800.9	98.67									
100%	Vmin	2379400.0	801.5	98.59	2379070.0	801.5	98.59									
10%	Vnom	247260.7	902.3	98.02	247218.7	902.3	98.02									
20%	Vnom	547429.7	901.7	98.55	547520.3	901.7	98.57									
30%	Vnom	809642.0	901.2	98.59	809799.7	901.2	98.59									
50%	Vnom	1126540.0	900.6	98.55	1126663.3	900.6	98.56									
75%	Vnom	1755123.3	901.0	98.55	1755173.3	901.0	98.54									
100%	Vnom	2377000.0	900.4	98.44	2377093.3	900.4	98.44									
10%	Vmax	248233.3	1201.8	97.65	248097.7	1201.8	97.63									
20%	Vmax	548898.7	1201.5	98.24	548995.0	1201.6	98.27									
30%	Vmax	811751.0	1201.3	98.37	811824.0	1201.3	98.37									
50%	Vmax	1126523.3	1200.9	98.38	1126516.7	1200.9	98.38									
75%	Vmax	1755813.3	1201.5	98.36	1755880.0	1201.5	98.36									
100%	Vmax	2376890.0	1201.2	98.28	2376706.7	1201.2	98.27									