Manufacturer: TMEIC

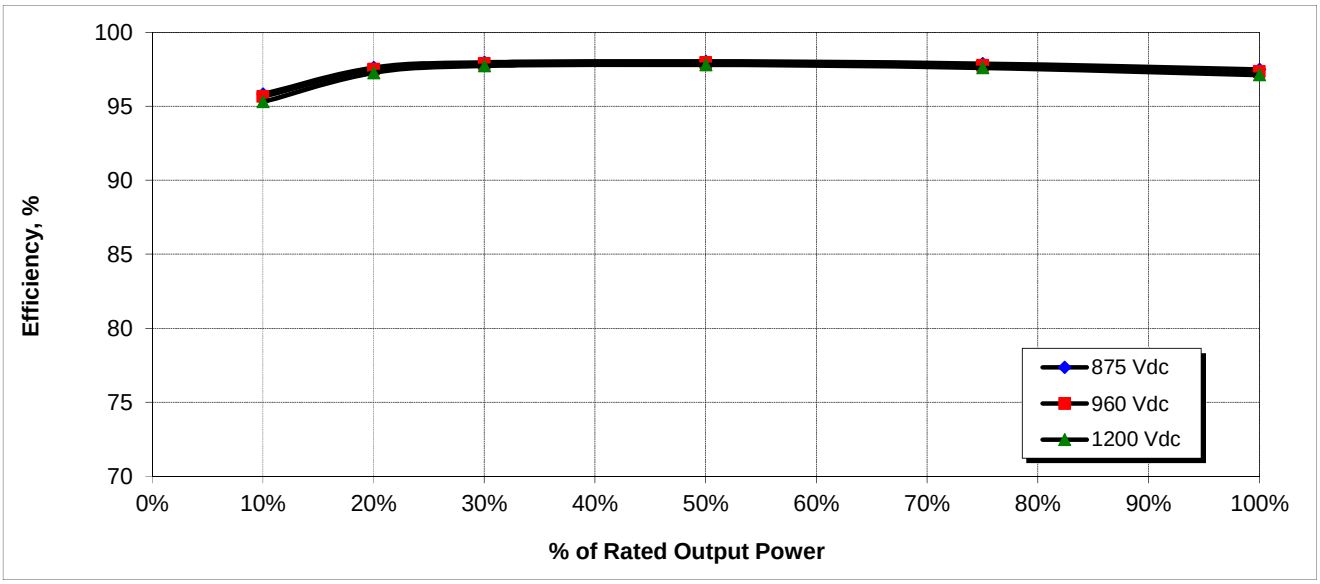
Model #: PVH-L2700GR-EG

Rated Maximum Continuous Output Power: 2700.0 kW Night Tare Loss: -265 W

Vmin: 875 Vdc Vnom: 960 Vdc Vmax: 1200 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		270.00	540.00	810.00	1350.00	2025.00	2700.00	Wtd
Vmin	875	95.8	97.6	98.0	98.0	97.9	97.5	97.8
Vnom	960	95.6	97.5	97.9	97.9	97.8	97.3	97.7
Vmax	1200	95.3	97.3	97.7	97.8	97.6	97.1	97.5

CEC Efficiency of Inverter and MV TP1 Transformer = 97.5%



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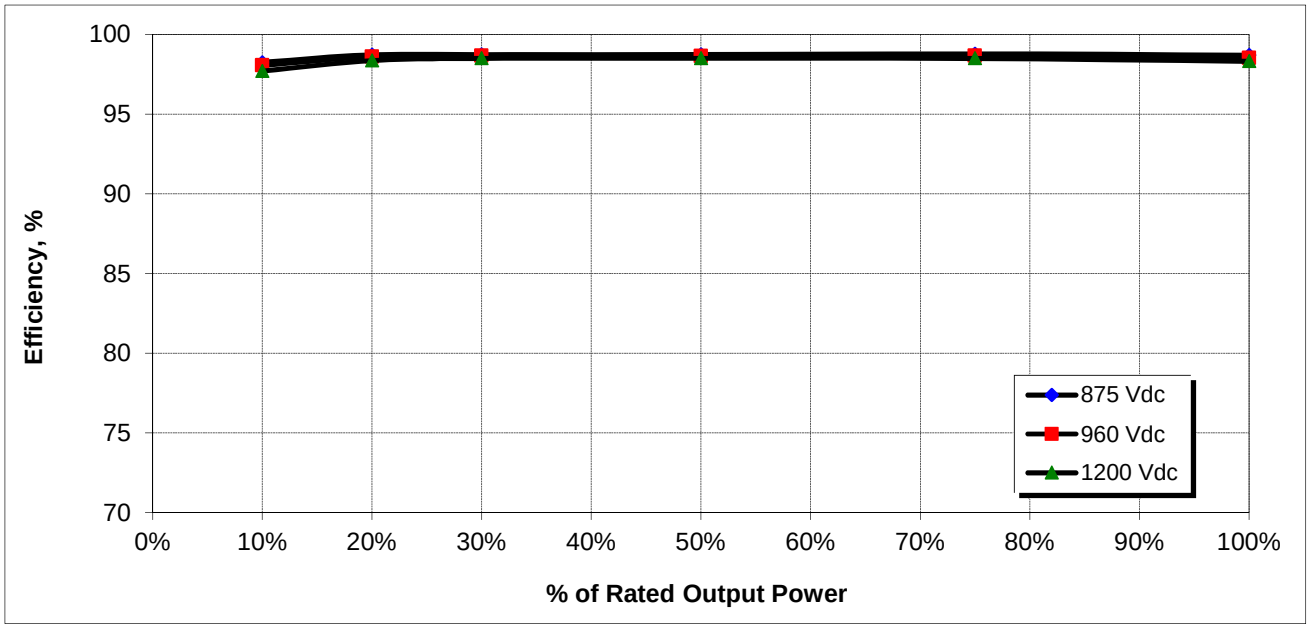
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		270.00	540.00	810.00	1350.00	2025.00	2700.00	Wtd
Vmin	875	98.2	98.7	98.7	98.7	98.8	98.7	98.7
Vnom	960	98.1	98.6	98.7	98.6	98.7	98.5	98.6
Vmax	1200	97.7	98.4	98.5	98.5	98.5	98.3	98.4

Inverter Efficiency only = 98.5%



2.7MVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		270.00	540.00	810.00	1350.00	2025.00	2700.00	Wtd
Vmin	875	97.55	98.89	99.23	99.30	99.10	98.79	99.07
Vnom	960	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 (% of rated)	Input Voltage (Vdc)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)
10%	Vmin	267037.0	877.0	98.25	267046.3	877.0	98.24	267420.7	877.0	98.24	266879.0	877.0	98.24	267337.7	876.9	98.25
20%	Vmin	591152.3	876.6	98.71	591021.7	876.6	98.71	590944.0	876.6	98.70	591126.7	876.6	98.71	591498.3	876.6	98.72
30%	Vmin	873918.3	876.0	98.74	874581.3	876.0	98.74	873870.0	876.0	98.73	874035.0	876.0	98.74	874501.0	876.0	98.73
50%	Vmin	1217396.7	875.3	98.74	1217333.3	875.3	98.73	1217016.7	875.3	98.75	1217933.3	875.3	98.74	1217566.7	875.3	98.73
75%	Vmin	1893993.3	875.9	98.73	1894156.7	875.9	98.74	1893933.3	875.8	98.77	1894900.0	875.8	98.78	1895013.3	875.8	98.81
100%	Vmin	2568840.0	875.1	98.69	2571340.0	875.1	98.74	2569710.0	875.1	98.68	2569736.7	875.1	98.68	2569373.3	875.1	98.69
10%	Vnom	267193.3	962.1	98.04	267330.3	962.0	98.04	267121.3	962.0	98.05	267218.3	962.1	98.01	267161.0	962.0	98.08
20%	Vnom	590999.0	961.5	98.60	590960.7	961.5	98.59	590966.7	961.5	98.59	590996.7	961.5	98.60	590989.3	961.5	98.60
30%	Vnom	873895.7	961.0	98.65	873815.7	961.0	98.66	873844.3	961.0	98.65	873979.3	961.0	98.64	873919.7	961.0	98.65
50%	Vnom	1216896.7	960.4	98.62	1216980.0	960.4	98.63	1216970.0	960.3	98.65	1217070.0	960.3	98.64	1216966.7	960.3	98.64
75%	Vnom	1893330.0	960.9	98.65	1893246.7	960.9	98.65	1893333.3	960.9	98.65	1893536.7	960.9	98.66	1893136.7	960.9	98.66
100%	Vnom	2575963.3	960.2	98.53	2575793.3	960.1	98.53	2576106.7	960.2	98.53	2576040.0	960.2	98.53	2575956.7	960.2	98.52
10%	Vmax	267699.0	1201.4	97.71	267634.7	1201.4	97.73	267589.7	1201.4	97.70	267655.3	1201.4	97.70	267657.0	1201.4	97.68
20%	Vmax	592204.3	1201.1	98.36	592212.0	1201.1	98.35	592233.3	1201.1	98.35	592077.7	1201.1	98.37	592343.7	1201.1	98.37
30%	Vmax	875332.0	1200.8	98.50	875310.0	1200.8	98.49	875297.0	1200.8	98.50	875343.0	1200.8	98.48	875280.3	1200.8	98.50
50%	Vmax	1218426.7	1200.4	98.50	1218456.7	1200.4	98.50	1218410.0	1200.4	98.50	1218506.7	1200.4	98.50	1218523.3	1200.4	98.49
75%	Vmax	1895773.3	1200.7	98.48	1895486.7	1200.7	98.48	1895633.3	1200.7	98.50	1895723.3	1200.8	98.50	1895663.3	1200.7	98.50
100%	Vmax	2565460.0	1200.0	98.29	2565980.0	1200.0	98.31	2565793.3	1200.0	98.31	2565980.0	1200.0	98.31	2565423.3	1200.0	98.29

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power (% of rated)	Input Voltage (Vdc)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)	Output Power (W)	Input Voltage (Vdc)	Efficiency (%)
10%	Vmin	266746.0	877.0	98.25	267133.7	877.0	98.26									
20%	Vmin	591505.7	876.6	98.71	590962.0	876.6	98.72									
30%	Vmin	874569.3	876.0	98.73	874752.0	876.0	98.73									
50%	Vmin	1216680.0	875.3	98.74	1217733.3	875.3	98.72									
75%	Vmin	1895056.7	875.8	98.82	1894413.3	875.8	98.82									
100%	Vmin	2568456.7	875.1	98.70	2569240.0	875.1	98.70									
10%	Vnom	267146.3	962.0	98.09	267274.7	962.0	98.06									
20%	Vnom	591032.3	961.5	98.60	590945.7	961.5	98.59									
30%	Vnom	873669.0	961.0	98.64	874043.7	961.0	98.66									
50%	Vnom	1216910.0	960.3	98.64	1217113.3	960.4	98.63									
75%	Vnom	1893440.0	960.9	98.64	1893520.0	960.9	98.65									
100%	Vnom	2576413.3	960.2	98.52	2576030.0	960.2	98.52									
10%	Vmax	267743.0	1201.4	97.68	267684.3	1201.4	97.68									
20%	Vmax	592304.7	1201.1	98.37	592252.7	1201.1	98.34									
30%	Vmax	875161.7	1200.8	98.47	875387.3	1200.8	98.50									
50%	Vmax	1218730.0	1200.4	98.48	1218740.0	1200.4	98.49									
75%	Vmax	1895770.0	1200.7	98.49	1895406.7	1200.7	98.49									
100%	Vmax	2566143.3	1200.0	98.32	2566190.0	1200.0	98.32									