Manufacturer: TMEIC

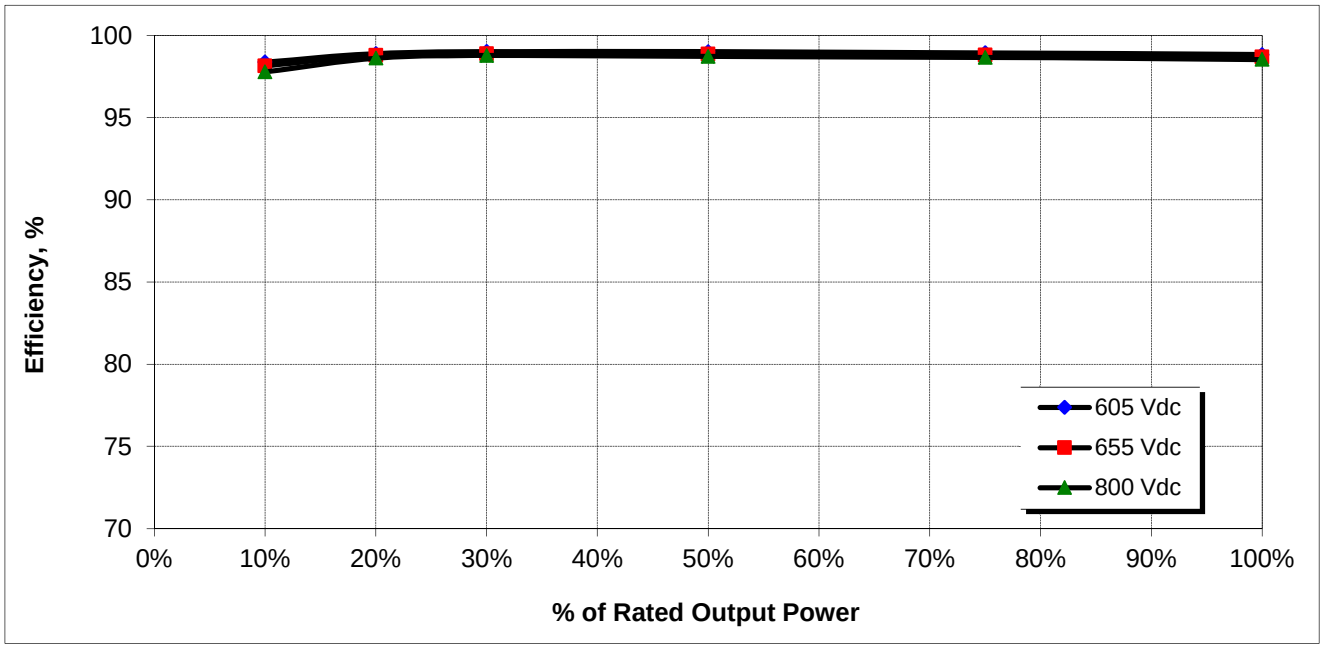
Model #: PVL-L1833GRM

Rated Maximum Continuous Output Power: 1833.0 kW Night Tare Loss: -110 W

Vmin: 605 Vdc Vnom: 655 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		183.30	366.60	549.90	916.50	1374.75	1833.00	Wtd
Vmin	605	98.4	98.9	99.0	99.0	98.9	98.8	98.9
Vnom	655	98.1	98.8	98.9	98.9	98.8	98.7	98.8
Vmax	800	97.8	98.6	98.8	98.7	98.7	98.5	98.6

Inverter Efficiency only = 99.0%



1.833MVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		183.30	366.60	549.90	916.50	1374.75	1833.00	Wtd
Vmin	605	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	655	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vmax	800	97.45	98.79	99.13	99.20	99.00	98.69	98.97

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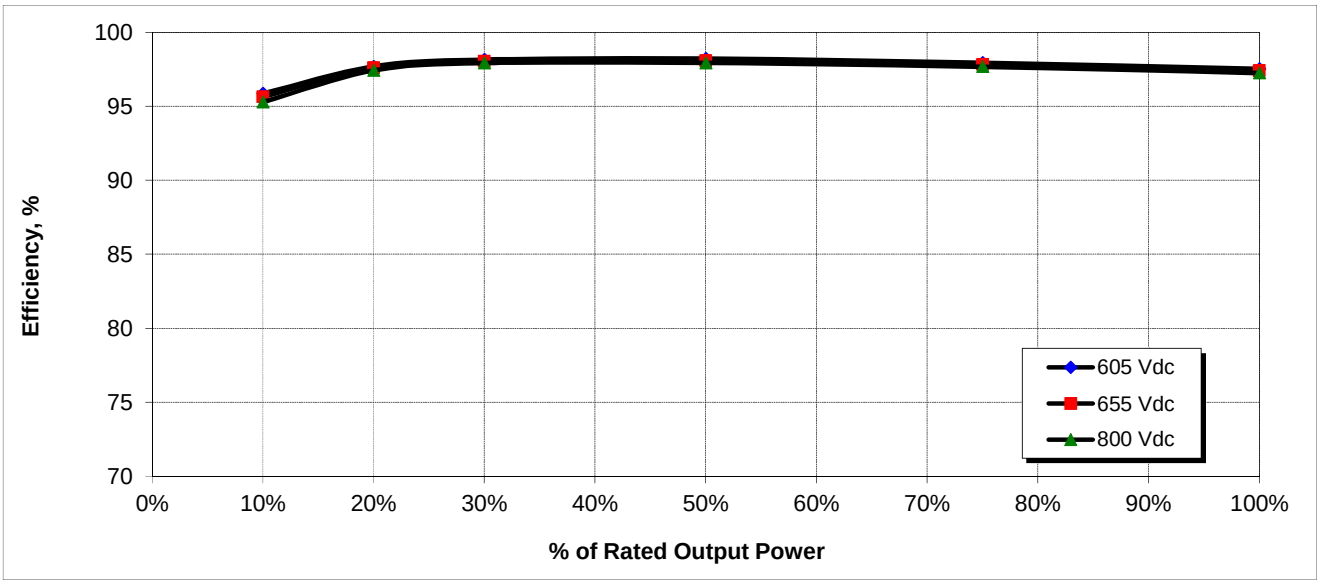
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		183.30	366.60	549.90	916.50	1374.75	1833.00	Wtd
Vmin	605	95.9	97.7	98.2	98.2	98.0	97.5	97.9
Vnom	655	95.6	97.6	98.0	98.1	97.8	97.4	97.8
Vmax	800	95.3	97.4	97.9	97.9	97.7	97.3	97.6

CEC Efficiency of Inverter and MV TP1 Transformer = 98.0%



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	179351.3	605.1	98.35	179432.3	605.1	98.36	179407.7	605.1	98.41	179373.0	605.1	98.37	179450.3	605.1	98.37
20%	Vmin	400085.3	605.2	98.89	400186.3	605.2	98.89	400186.3	605.2	98.88	400208.7	605.2	98.91	400096.0	605.2	98.91
30%	Vmin	594648.0	605.1	99.01	594861.7	605.1	99.01	594667.0	605.1	99.02	594497.3	605.1	99.02	594586.0	605.1	99.02
50%	Vmin	913454.0	605.2	99.01	913214.7	605.2	99.01	913378.3	605.2	99.01	913742.7	605.2	99.01	913501.3	605.2	99.01
75%	Vmin	1290593.3	605.1	98.94	1290180.0	605.2	98.95	1290253.3	605.2	98.95	1290753.3	605.1	98.94	1290783.3	605.2	98.94
100%	Vmin	1745963.3	605.1	98.84	1745690.0	605.1	98.83	1746063.3	605.0	98.84	1745796.7	605.0	98.84	1744796.7	605.0	98.85
10%	Vnom	179311.0	655.1	98.14	179333.3	655.0	98.12	179313.7	655.0	98.12	179324.7	655.0	98.13	179324.0	655.0	98.20
20%	Vnom	399575.7	655.3	98.82	399617.0	655.3	98.80	399763.7	655.3	98.80	399607.3	655.3	98.80	399771.7	655.2	98.77
30%	Vnom	594349.7	655.2	98.88	594309.0	655.2	98.87	594318.7	655.2	98.88	594163.0	655.2	98.90	594489.0	655.2	98.89
50%	Vnom	912713.0	655.3	98.87	912769.7	655.3	98.87	912852.7	655.3	98.87	913027.7	655.3	98.87	913155.0	655.3	98.86
75%	Vnom	1290480.0	655.3	98.80	1290280.0	655.2	98.80	1289320.0	655.2	98.82	1289833.3	655.2	98.82	1290083.3	655.3	98.82
100%	Vnom	1745456.7	655.1	98.70	1744303.3	655.1	98.70	1745163.3	655.1	98.70	1744616.7	655.1	98.70	1744856.7	655.1	98.70
10%	Vmax	179479.0	800.6	97.73	179515.3	800.6	97.80	179495.0	800.6	97.77	179485.7	800.6	97.77	179497.0	800.6	97.81
20%	Vmax	400145.0	800.8	98.62	400206.3	800.8	98.58	400141.7	800.8	98.61	400195.3	800.8	98.63	400200.7	800.8	98.64
30%	Vmax	594243.0	800.2	98.79	594351.7	800.2	98.79	594493.0	800.2	98.78	594112.3	800.2	98.79	594562.3	800.2	98.79
50%	Vmax	913489.0	800.1	98.72	913756.7	800.1	98.71	913384.0	800.1	98.72	913791.7	800.1	98.73	913844.0	800.1	98.73
75%	Vmax	1291690.0	800.8	98.66	1291806.7	800.8	98.65	1291386.7	800.8	98.68	1291696.7	800.8	98.67	1291760.0	800.8	98.67
100%	Vmax	1746553.3	800.3	98.54	1746486.7	800.3	98.54	1745943.3	800.3	98.54	1746763.3	800.3	98.54	1746546.7	800.3	98.54

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	179497.3	605.1	98.41	179241.7	605.1	98.41									
20%	Vmin	400287.3	605.2	98.89	400171.3	605.2	98.91									
30%	Vmin	594368.0	605.1	99.03	594759.3	605.1	99.03									
50%	Vmin	912359.7	605.1	99.03	912869.0	605.1	99.03									
75%	Vmin	1290590.0	605.2	98.95	1290450.0	605.2	98.94									
100%	Vmin	1745493.3	605.0	98.83	1746053.3	605.0	98.84									
10%	Vnom	179332.3	655.0	98.16	179335.0	655.0	98.16									
20%	Vnom	399859.7	655.3	98.79	399956.7	655.3	98.79									
30%	Vnom	594078.0	655.2	98.90	594389.3	655.2	98.89									
50%	Vnom	913235.0	655.3	98.88	912989.0	655.3	98.88									
75%	Vnom	1290373.3	655.2	98.81	1290070.0	655.2	98.81									
100%	Vnom	1745606.7	655.0	98.70	1746363.3	655.1	98.69									
10%	Vmax	179502.0	800.6	97.83	179468.7	800.6	97.78									
20%	Vmax	400118.0	800.8	98.63	399961.7	800.8	98.62									
30%	Vmax	594611.7	800.2	98.77	594294.0	800.2	98.77									
50%	Vmax	913727.7	800.1	98.73	913673.7	800.1	98.73									
75%	Vmax	1291346.7	800.8	98.67	1291436.7	800.8	98.67									
100%	Vmax	1746203.3	800.3	98.54	1746643.3	800.3	98.54									