Manufacturer: Perfect Galaxy International Ltd.

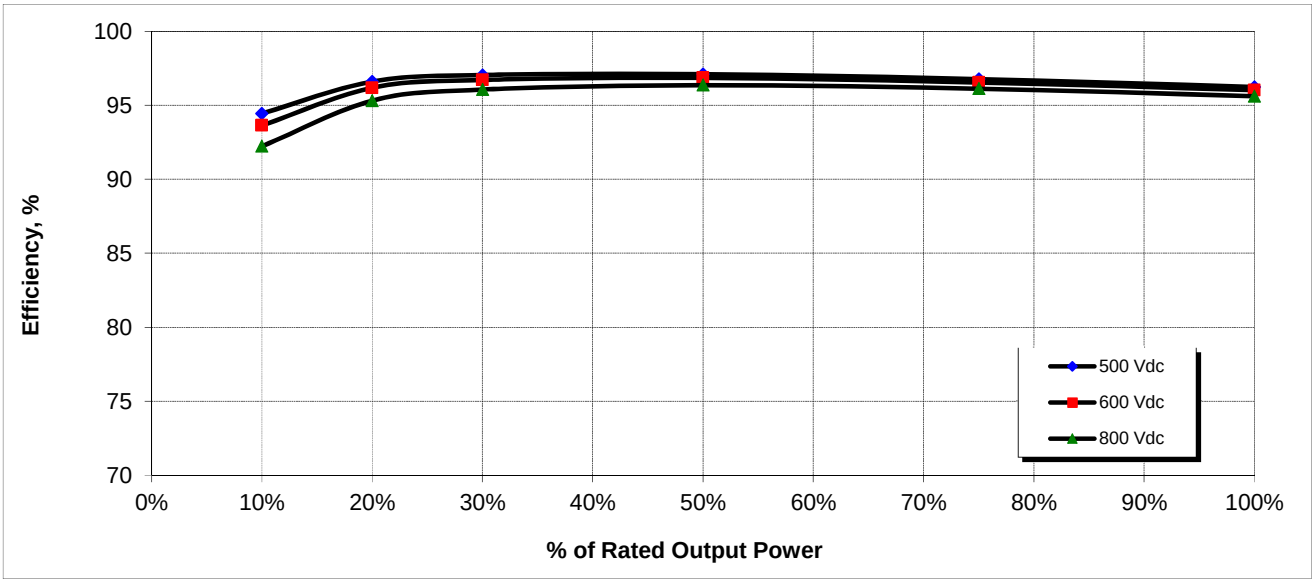
Model #: PV-625-XRLS-VV-STG, PV-625-XRLS-VV-RVG

Rated Maximum Continuous Output Power: 625.00 kW Night Tare Loss: 259 W

Vmin: 500 Vdc Vnom: 600 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		62.50	125.00	187.50	312.50	468.75	625.00	Wtd
Vmin	500	94.45	96.61	97.05	97.11	96.78	96.24	96.75
Vnom	600	93.64	96.19	96.72	96.86	96.55	96.02	96.47
Vmax	800	92.24	95.31	96.07	96.36	96.13	95.62	95.95

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



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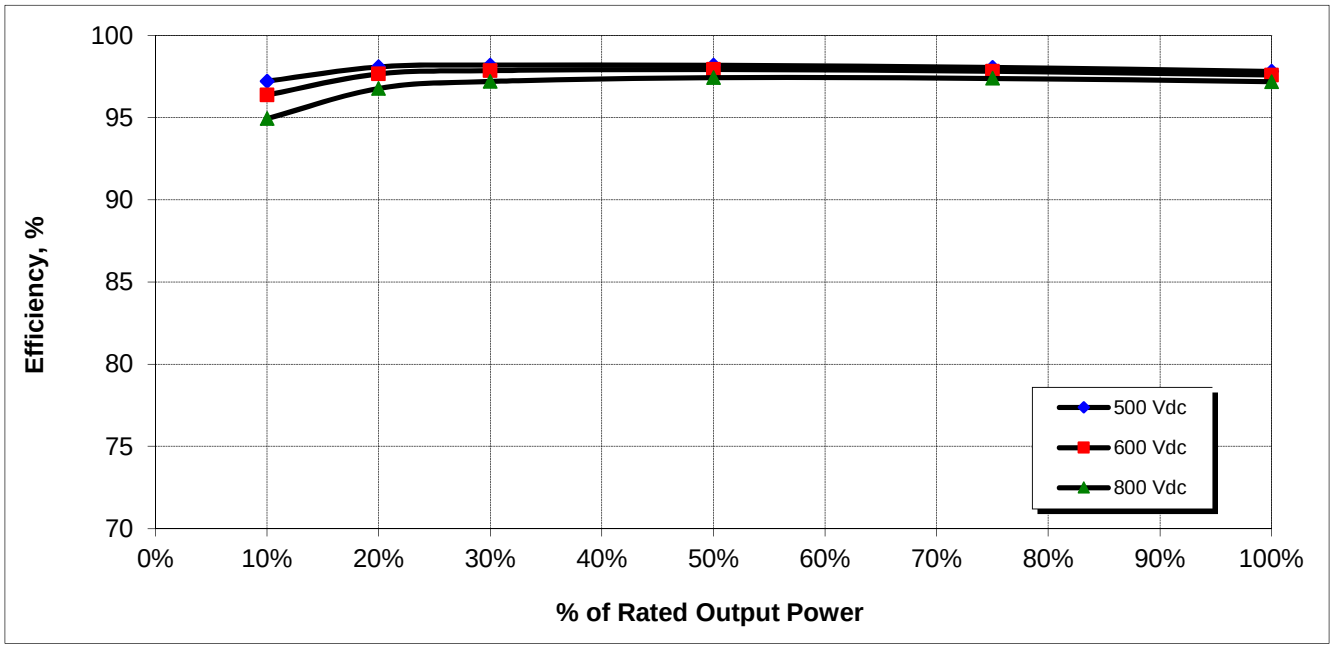
Vmin: 500 Vdc Vnom: 600 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		62.50	125.00	187.50	312.50	468.75	625.00	Wtd
Vmin	500	97.22	98.09	98.20	98.19	98.05	97.82	98.06
Vnom	600	96.39	97.66	97.86	97.94	97.82	97.60	97.77
Vmax	800	94.94	96.78	97.21	97.43	97.39	97.18	97.24

Inverter Efficiency only = 97.5%



625kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		62.50	125.00	187.50	312.50	468.75	625.00	Wtd
Vmin	500	97.15	98.49	98.83	98.90	98.70	98.39	98.70
Vnom	600	97.15	98.49	98.83	98.90	98.70	98.39	98.70
Vmax	800	97.15	98.49	98.83	98.90	98.70	98.39	98.70

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	57103.33	501.93	97.24	56700.00	501.92	97.22	56750.00	501.92	97.24	57020.00	501.92	97.22	56930.00	501.92	97.15
20%	Vmin	127150.00	501.79	98.07	126860.00	501.78	98.06	127246.67	501.77	98.11	127110.00	501.82	98.11	127456.67	501.78	98.08
30%	Vmin	190910.00	501.56	98.20	190883.33	501.59	98.21	191316.67	501.60	98.19	191160.00	501.63	98.19	191130.00	501.58	98.21
50%	Vmin	312420.00	501.35	98.19	311766.67	501.34	98.19	311633.33	501.38	98.19	312096.67	501.39	98.20	311690.00	501.34	98.19
75%	Vmin	469816.67	502.05	98.05	469600.00	502.08	98.05	470330.00	502.06	98.05	469036.67	502.07	98.06	470743.33	502.07	98.05
100%	Vmin	627513.33	501.78	97.81	626213.33	501.81	97.81	625893.33	501.82	97.82	628083.33	501.76	97.81	625676.67	501.75	97.82
10%	Vnom	56140.00	600.83	96.38	56083.33	600.83	96.34	56173.33	600.84	96.36	56036.67	600.83	96.41	56170.00	600.84	96.43
20%	Vnom	126413.33	600.71	97.66	126010.00	600.73	97.66	126453.33	600.72	97.64	126320.00	600.71	97.65	126273.33	600.72	97.68
30%	Vnom	189440.00	601.49	97.87	190210.00	601.46	97.88	189940.00	601.50	97.84	189940.00	601.54	97.85	190003.33	601.53	97.87
50%	Vnom	310676.67	601.28	97.93	310436.67	601.31	97.93	310840.00	601.25	97.93	310866.67	601.32	97.95	310760.00	601.29	97.95
75%	Vnom	468870.00	601.08	97.82	468066.67	601.12	97.82	467596.67	601.12	97.82	468440.00	601.10	97.83	468446.67	601.16	97.81
100%	Vnom	624830.00	600.90	97.60	624656.67	600.91	97.60	624926.67	600.92	97.59	623896.67	600.91	97.59	624656.67	600.91	97.60
10%	Vmax	56283.33	798.29	94.92	56233.33	798.30	94.95	56446.67	798.26	94.94	56310.00	798.27	94.97	56336.67	798.26	94.94
20%	Vmax	126280.00	798.14	96.77	126403.33	798.10	96.78	126173.33	798.09	96.79	126280.00	798.06	96.78	126116.67	798.07	96.77
30%	Vmax	190036.67	799.05	97.21	189870.00	799.03	97.21	189753.33	798.99	97.23	189996.67	799.01	97.22	190156.67	798.96	97.19
50%	Vmax	310473.33	798.84	97.43	310016.67	798.80	97.42	310976.67	798.80	97.44	310266.67	798.73	97.43	310550.00	798.79	97.44
75%	Vmax	467956.67	798.67	97.38	467593.33	798.68	97.39	468573.33	798.63	97.40	469196.67	798.63	97.40	468766.67	798.60	97.39
100%	Vmax	624110.00	798.54	97.20	624383.33	798.57	97.17	624673.33	798.57	97.19	623960.00	798.55	97.19	623853.33	798.60	97.17

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	57020.00	501.94	97.20	57393.33	501.92	97.28									
20%	Vmin	127340.00	501.81	98.08	127156.67	501.80	98.10									
30%	Vmin	190970.00	501.61	98.20	190823.33	501.64	98.20									
50%	Vmin	311193.33	501.38	98.18	312200.00	501.41	98.19									
75%	Vmin	468543.33	502.07	98.06	468646.67	502.08	98.05									
100%	Vmin	625503.33	501.82	97.83	625490.00	501.79	97.81									
10%	Vnom	56306.67	600.82	96.38	56096.67	600.83	96.40									
20%	Vnom	126523.33	600.74	97.66	126006.67	600.76	97.68									
30%	Vnom	189783.33	601.53	97.84	190016.67	601.51	97.87									
50%	Vnom	310656.67	601.30	97.94	309796.67	601.35	97.94									
75%	Vnom	467536.67	601.09	97.82	467583.33	601.06	97.83									
100%	Vnom	624863.33	600.95	97.60	624680.00	600.94	97.59									
10%	Vmax	56266.67	798.26	94.92	56336.67	798.23	94.98									
20%	Vmax	126256.67	798.09	96.78	126256.67	798.08	96.76									
30%	Vmax	190286.67	798.94	97.22	181966.67	798.76	97.17									
50%	Vmax	310630.00	798.80	97.43	310840.00	798.79	97.44									
75%	Vmax	468466.67	798.63	97.39	467480.00	798.65	97.39									
100%	Vmax	624260.00	798.47	97.19	624920.00	798.56	97.18									