Manufacturer: Perfect Galaxy International Ltd.

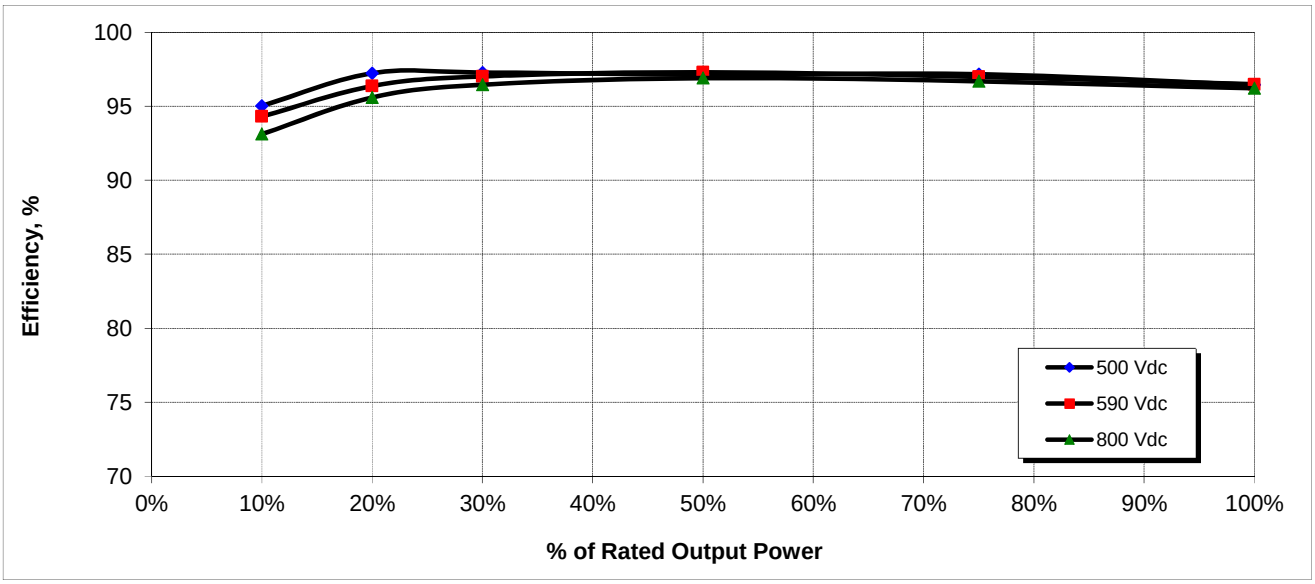
Model #: EQX0500UV320XP(N)

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 96 W

Vmin: 500 Vdc Vnom: 590 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	500	95.04	97.24	97.29	97.15	97.17	96.45	97.06
Vnom	590	94.32	96.38	97.02	97.31	97.00	96.49	96.90
Vmax	800	93.13	95.60	96.47	96.91	96.70	96.22	96.49

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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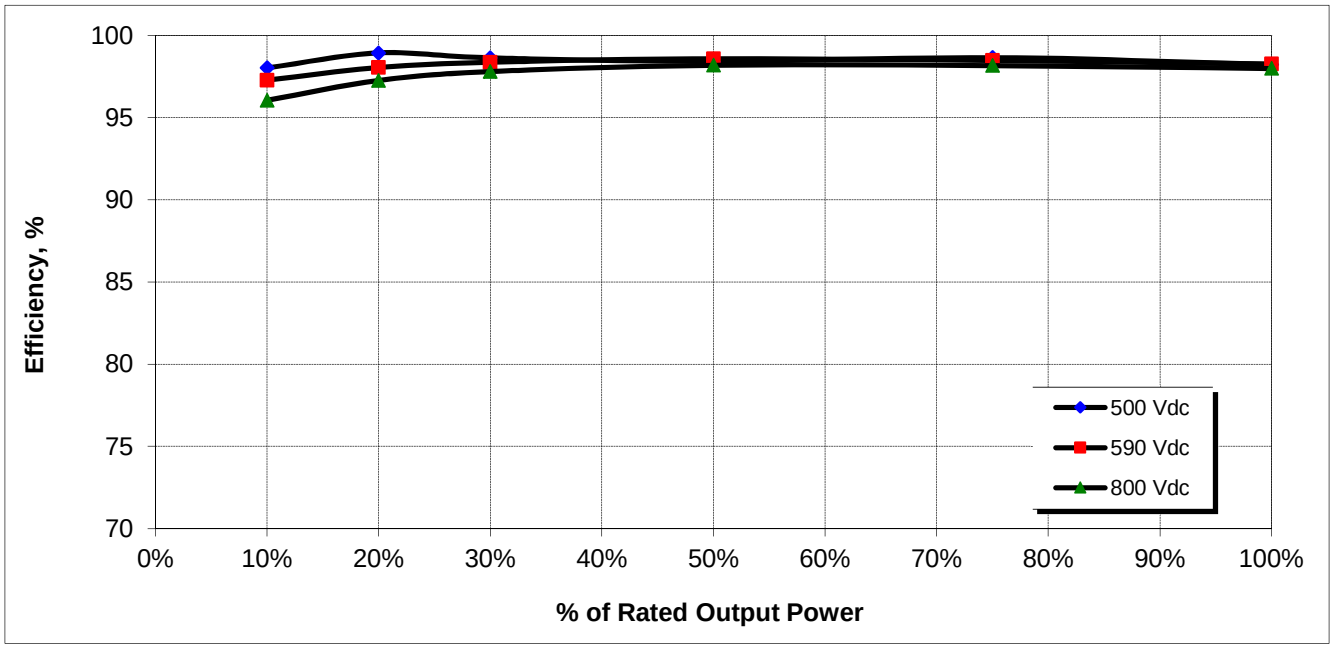
Vmin: 500 Vdc Vnom: 590 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	500	98.03	98.94	98.64	98.43	98.65	98.23	98.57
Vnom	590	97.28	98.05	98.37	98.59	98.47	98.27	98.41
Vmax	800	96.06	97.27	97.81	98.19	98.17	97.99	97.99

Inverter Efficiency only = 98.5%



500kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	545	96.95	98.29	98.63	98.70	98.50	98.19	98.70
Vnom	590	96.95	98.29	98.63	98.70	98.50	98.19	98.70
Vmax	800	96.95	98.29	98.63	98.70	98.50	98.19	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	49800.00	504.00	98.03	49800.00	504.00	98.03	49800.00	504.00	98.03	49800.00	504.00	98.03	49800.00	504.00	98.03
20%	Vmin	102000.00	501.00	99.03	102000.00	501.00	99.03	101666.67	501.00	98.71	101666.67	501.00	98.71	102000.00	501.00	99.03
30%	Vmin	152000.00	500.00	98.70	152000.00	500.00	98.70	152000.00	500.00	98.70	152000.00	500.00	98.49	152000.00	500.00	98.49
50%	Vmin	250000.00	500.00	98.43	250000.00	500.00	98.43	250000.00	500.00	98.43	250000.00	500.00	98.43	250000.00	500.00	98.43
75%	Vmin	373000.00	501.00	98.68	373000.00	501.00	98.68	372666.67	501.00	98.59	372666.67	501.00	98.59	373000.00	501.00	98.68
100%	Vmin	500000.00	501.00	98.23	500000.00	501.00	98.23	500000.00	501.00	98.23	500000.00	501.00	98.23	500000.00	501.00	98.23
10%	Vnom	48104.10	589.72	97.28	48124.00	589.68	97.27	48119.17	589.66	97.30	48116.20	589.76	97.27	48098.53	589.94	97.29
20%	Vnom	103023.67	588.82	98.05	103025.67	588.80	98.05	103027.33	588.80	98.05	103026.00	588.76	98.06	103021.33	588.80	98.05
30%	Vnom	158669.33	589.28	98.37	158675.00	589.30	98.37	158671.67	589.29	98.37	158674.00	589.29	98.37	158674.33	589.29	98.37
50%	Vnom	250796.67	587.97	98.59	250790.00	587.96	98.59	250777.67	587.99	98.59	250789.67	587.96	98.59	250785.00	587.95	98.59
75%	Vnom	355368.67	588.07	98.47	355364.67	588.05	98.48	355365.33	588.06	98.47	355362.33	588.04	98.48	355356.67	588.04	98.48
100%	Vnom	480604.67	588.26	98.26	480595.33	588.28	98.27	480593.33	588.25	98.27	480592.00	588.26	98.27	480593.00	588.26	98.27
10%	Vmax	48111.93	791.88	96.05	48114.30	791.90	96.05	48117.50	791.89	96.06	48118.13	791.88	96.07	48114.63	791.88	96.07
20%	Vmax	102708.33	789.20	97.28	102713.67	789.19	97.27	102712.67	789.24	97.26	102711.33	789.21	97.26	102707.00	789.21	97.26
30%	Vmax	158342.33	789.04	97.81	158345.00	789.02	97.81	158344.33	789.04	97.80	158345.67	789.03	97.81	158345.00	789.06	97.81
50%	Vmax	250415.67	788.59	98.19	250408.67	788.57	98.19	250413.00	788.60	98.19	250407.67	788.60	98.19	250409.67	788.59	98.19
75%	Vmax	354921.67	787.99	98.17	354926.00	788.01	98.17	354927.00	788.00	98.16	354924.00	788.00	98.17	354921.00	788.01	98.17
100%	Vmax	483177.00	787.36	97.99	483184.33	787.37	97.99	483177.00	787.33	97.99	483179.00	787.35	97.99	483173.00	787.37	97.99

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	49800.00	504.00	98.03	49800.00	504.00	98.03									
20%	Vmin	102000.00	501.00	99.03	102000.00	501.00	99.03									
30%	Vmin	152000.00	500.00	98.70	152000.00	500.00	98.70									
50%	Vmin	250000.00	500.00	98.43	250000.00	500.00	98.43									
75%	Vmin	373000.00	501.00	98.68	373000.00	501.00	98.68									
100%	Vmin	500000.00	501.00	98.23	500000.00	501.00	98.23									
10%	Vnom	48111.90	589.77	97.26	48111.23	589.84	97.31									
20%	Vnom	103019.67	588.79	98.05	103021.33	588.83	98.05									
30%	Vnom	158677.33	589.29	98.37	158679.00	589.28	98.37									
50%	Vnom	250788.67	587.92	98.60	250784.00	587.96	98.59									
75%	Vnom	355360.33	588.05	98.47	355364.33	588.02	98.48									
100%	Vnom	480591.33	588.26	98.27	480591.00	588.27	98.27									
10%	Vmax	48114.60	791.89	96.03	48114.63	791.88	96.05									
20%	Vmax	102699.67	789.24	97.27	102699.67	789.25	97.25									
30%	Vmax	158348.33	789.04	97.80	158347.33	789.01	97.80									
50%	Vmax	250415.00	788.60	98.19	250404.67	788.59	98.19									
75%	Vmax	354921.00	788.01	98.17	354918.67	788.00	98.17									
100%	Vmax	483167.00	787.36	97.99	483165.67	787.37	97.99									