Manufacturer: Perfect Galaxy International Ltd.

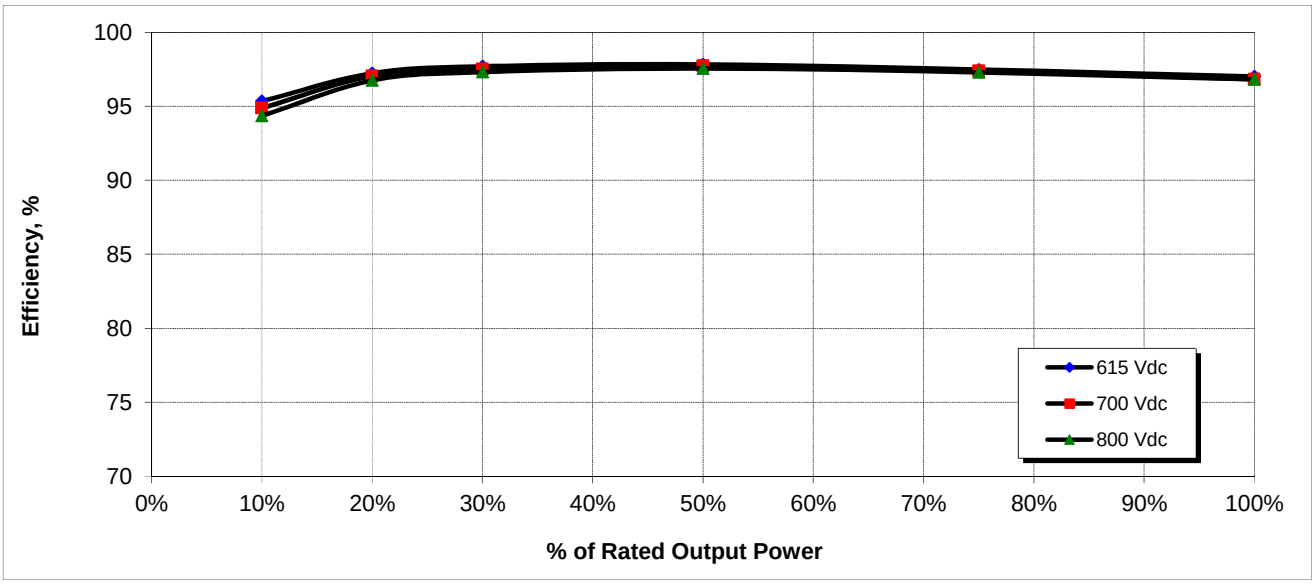
Model #: EQX1000UV400XP(N)

Rated Maximum Continuous Output Power: 1000.00 kW Night Tare Loss: 124 W

Vmin: 615 Vdc Vnom: 700 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	615	95.35	97.24	97.70	97.84	97.48	97.01	97.46
Vnom	700	94.88	97.05	97.53	97.73	97.38	96.83	97.33
Vmax	800	94.36	96.75	97.31	97.56	97.30	96.82	97.19

CEC Efficiency of Inverter and MV TP1 Transformer = 97.5%



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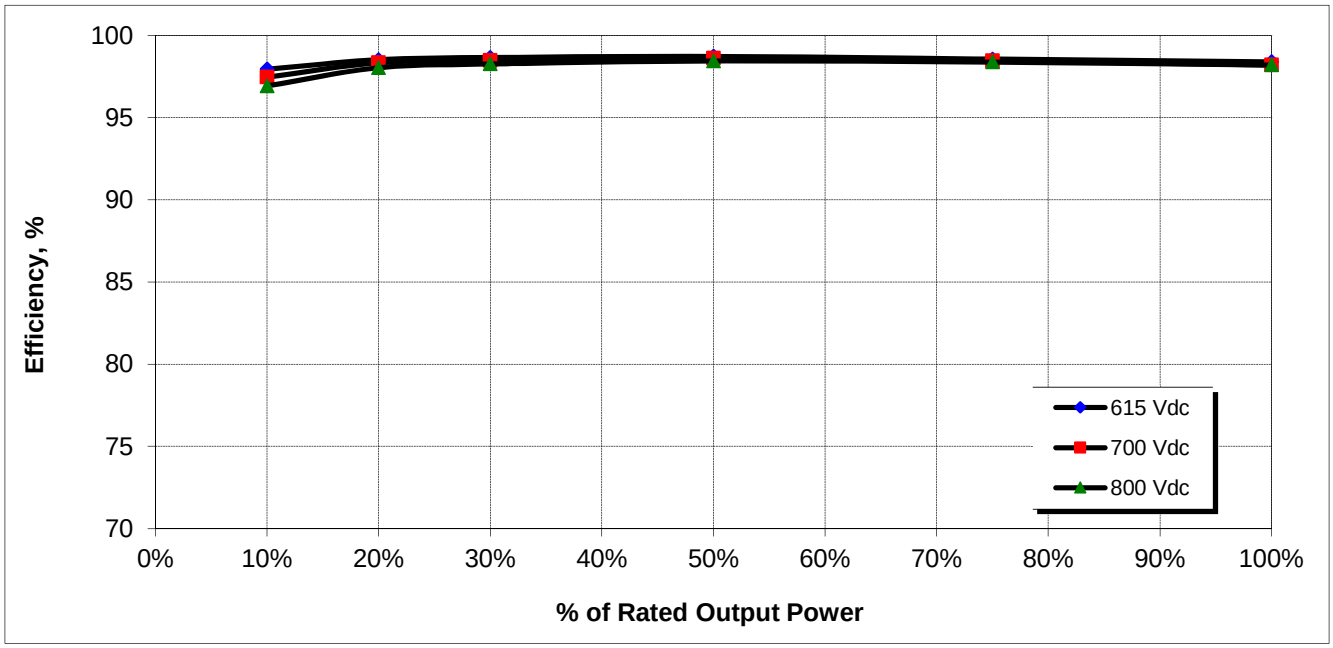
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	615	97.95	98.53	98.66	98.73	98.57	98.40	98.58
Vnom	700	97.46	98.34	98.48	98.62	98.47	98.21	98.44
Vmax	800	96.93	98.04	98.27	98.45	98.38	98.20	98.30

Inverter Efficiency only = 98.5%



1MVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	615	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vnom	700	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vmax	800	97.35	98.69	99.03	99.10	98.90	98.59	98.87

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	97140.67	617.77	97.94	97135.00	617.75	97.93	97275.67	617.77	97.94	97139.67	617.76	97.95	97335.33	617.75	97.96
20%	Vmin	208132.33	617.52	98.54	208441.00	617.54	98.53	208118.33	617.54	98.55	208193.67	617.53	98.52	208391.00	617.56	98.53
30%	Vmin	309096.67	617.28	98.66	309160.00	617.29	98.66	309256.67	617.29	98.67	309580.00	617.30	98.66	309030.00	617.31	98.66
50%	Vmin	510763.33	616.97	98.72	510663.33	616.96	98.73	510536.67	616.98	98.73	510390.00	616.97	98.72	510560.00	616.97	98.73
75%	Vmin	748813.33	616.53	98.57	748440.00	616.56	98.56	748440.00	616.55	98.57	749100.00	616.55	98.56	748400.00	616.54	98.59
100%	Vmin	993220.00	617.21	98.39	994720.00	617.24	98.40	995410.00	617.23	98.40	994253.33	617.18	98.41	994910.00	617.21	98.40
10%	Vnom	91768.33	699.63	97.48	91825.33	699.67	97.45	91851.33	699.65	97.46	91865.33	699.67	97.46	91787.67	699.66	97.47
20%	Vnom	203233.00	699.40	98.33	203163.67	699.44	98.34	203201.00	699.42	98.36	203075.67	699.46	98.33	203213.33	699.45	98.34
30%	Vnom	303686.67	699.23	98.48	304570.00	699.22	98.49	303923.33	699.23	98.48	304423.33	699.22	98.49	304316.67	699.24	98.48
50%	Vnom	505010.00	699.88	98.62	505080.00	699.89	98.62	505216.67	699.90	98.63	504866.67	699.90	98.61	505016.67	699.89	98.62
75%	Vnom	743470.00	699.53	98.49	742950.00	699.54	98.47	742363.33	699.54	98.47	743146.67	699.61	98.46	743633.33	699.52	98.46
100%	Vnom	996333.33	699.00	98.32	997333.33	699.00	98.42	998333.33	699.00	98.20	997000.00	699.00	98.07	999000.00	699.00	97.94
10%	Vmax	91033.00	798.46	96.95	90813.33	798.47	96.93	90958.33	798.46	96.93	90862.33	798.46	96.94	90886.33	798.46	96.93
20%	Vmax	201846.00	798.25	98.05	201999.67	798.25	98.04	201793.00	798.22	98.03	202097.67	798.27	98.02	201840.33	798.22	98.05
30%	Vmax	302993.33	798.04	98.27	303076.67	798.05	98.27	303243.33	798.06	98.26	302783.33	798.05	98.26	302960.00	798.04	98.26
50%	Vmax	503723.33	797.75	98.44	503870.00	797.76	98.45	503833.33	797.75	98.45	502940.00	797.73	98.45	503793.33	797.74	98.45
75%	Vmax	741326.67	797.43	98.39	740803.33	797.45	98.38	741080.00	797.44	98.39	740773.33	797.47	98.37	741533.33	797.43	98.39
100%	Vmax	996513.33	797.29	98.21	995680.00	797.27	98.20	995086.67	797.26	98.20	995946.67	797.28	98.21	994610.00	797.25	98.20

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	97145.33	617.78	97.96	97405.00	617.76	97.97									
20%	Vmin	208178.00	617.53	98.52	208337.00	617.53	98.51									
30%	Vmin	309396.67	617.32	98.66	308993.33	617.31	98.66									
50%	Vmin	510613.33	616.97	98.73	510580.00	616.97	98.73									
75%	Vmin	747686.67	616.57	98.57	748980.00	616.55	98.56									
100%	Vmin	993413.33	617.18	98.40	994843.33	617.18	98.39									
10%	Vnom	91854.00	699.68	97.46	91805.67	699.68	97.45									
20%	Vnom	203065.00	699.45	98.35	203282.00	699.44	98.32									
30%	Vnom	304100.00	699.24	98.49	304436.67	699.25	98.48									
50%	Vnom	505426.67	699.88	98.62	504603.33	699.91	98.62									
75%	Vnom	743536.67	699.53	98.46	742953.33	699.56	98.47									
100%	Vnom	995333.33	699.00	98.55	999333.33	699.00	97.97									
10%	Vmax	91010.67	798.47	96.93	90886.33	798.46	96.89									
20%	Vmax	201975.00	798.27	98.04	201975.00	798.25	98.04									
30%	Vmax	302723.33	798.05	98.28	302806.67	798.08	98.26									
50%	Vmax	504050.00	797.71	98.46	503513.33	797.73	98.45									
75%	Vmax	740546.67	797.44	98.39	740556.67	797.43	98.38									
100%	Vmax	994980.00	797.24	98.21	995290.00	797.21	98.21									