Manufacturer: Apparent Inc.

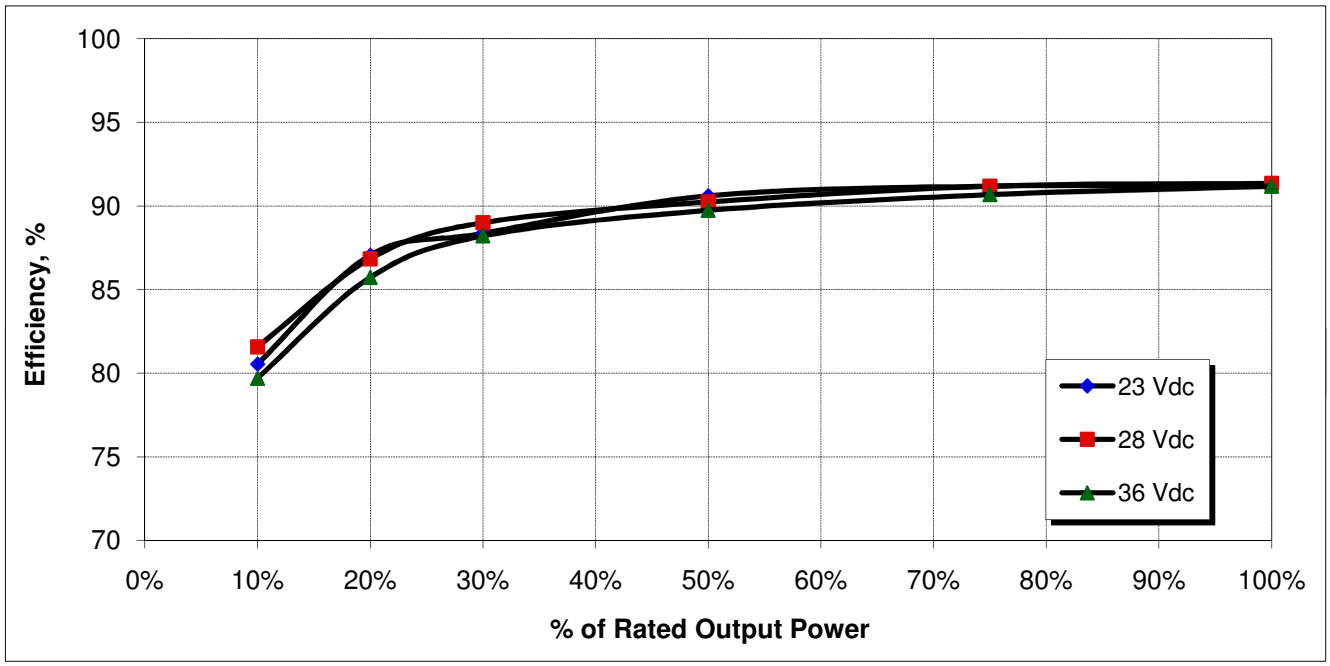
Model #: MGI220-MC4

Rated Maximum Continuous Output Power: 0.18 kW Night Tare Loss: 0.40 W

Vmin: 23 Vdc Vnom: 28 Vdc Vmax: 36 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.02	0.04	0.05	0.09	0.14	0.18	Wtd
Vmin	23	80.5	87.0	88.4	90.6	91.2	91.2	90.1
Vnom	28	81.6	86.8	89.0	90.2	91.2	91.4	90.1
Vmax	36	79.7	85.7	88.2	89.7	90.7	91.2	89.5

CEC Efficiency = 90.0%



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	17.715	23.065	80.697	17.693	23.066	80.600	17.702	23.065	80.575	17.387	23.064	80.356	17.69	23.064	80.515
20%	Vmin	39.448	23.07	87.105	39.431	23.071	87.072	39.417	23.071	87.056	39.415	23.071	87.042	39.398	23.071	87.020
30%	Vmin	58.263	23.078	88.378	58.26	23.077	88.371	58.252	23.078	88.364	58.236	23.078	88.357	58.235	23.077	88.350
50%	Vmin	98.696	23.091	90.609	98.697	23.09	90.605	98.691	23.091	90.605	98.678	23.091	90.605	98.674	23.091	90.603
75%	Vmin	143.67	23.107	91.184	143.674	23.107	91.183	143.68	23.106	91.184	143.674	23.107	91.185	143.677	23.106	91.189
100%	Vmin	171.92	23.117	91.160	171.904	23.117	91.161	171.91	23.117	91.161	171.919	23.116	91.160	171.924	23.116	91.158
10%	Vnom	17.115	28.175	81.737	17.082	28.175	81.614	17.084	28.174	81.568	17.102	28.173	81.540	17.1	28.173	81.506
20%	Vnom	38.662	28.182	86.876	38.655	28.182	86.856	38.664	28.181	86.841	38.653	28.181	86.830	38.662	28.18	86.821
30%	Vnom	57.765	28.186	89.037	57.77	28.185	89.027	57.745	28.185	89.006	57.719	28.185	88.991	57.711	28.186	88.980
50%	Vnom	98.194	28.199	90.246	98.205	28.198	90.247	98.177	28.199	90.236	98.182	28.198	90.235	98.178	28.198	90.234
75%	Vnom	143.33	28.212	91.190	143.307	28.212	91.189	143.3	28.213	91.187	143.294	28.212	91.189	143.285	28.213	91.187
100%	Vnom	187.71	28.227	91.359	187.716	28.227	91.360	187.71	28.227	91.357	187.725	28.226	91.357	187.72	28.226	91.359
10%	Vmax	17.732	35.947	79.793	17.716	35.946	79.729	17.708	35.945	79.693	17.703	35.945	79.673	17.7	35.945	79.647
20%	Vmax	39.358	35.95	85.767	39.344	35.949	85.739	39.34	35.949	85.727	39.33	35.95	85.706	39.322	35.949	85.695
30%	Vmax	58.363	35.952	88.228	58.303	35.954	88.223	58.32	35.953	88.207	58.324	35.952	88.199	58.289	35.954	88.194
50%	Vmax	98.446	35.962	89.741	98.464	35.961	89.741	98.47	35.961	89.737	98.437	35.962	89.729	98.45	35.961	89.727
75%	Vmax	143.49	35.973	90.671	143.431	35.975	90.672	143.42	35.976	90.671	143.437	35.975	90.671	143.414	35.976	90.670
100%	Vmax	188.54	35.987	91.173	188.535	35.987	91.174	188.54	35.988	91.173	188.519	35.988	91.177	188.529	35.988	91.177

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	17.678	23.065	80.492												
20%	Vmin	39.409	23.069	87.002												
30%	Vmin	58.225	23.078	88.345												
50%	Vmin	98.662	23.091	90.600												
75%	Vmin	143.68	23.107	91.188												
100%	Vmin	171.91	23.116	91.162												
10%	Vnom	17.1	28.173	81.484												
20%	Vnom	38.656	28.18	86.810												
30%	Vnom	57.7	28.185	88.970												
50%	Vnom	98.156	28.199	90.227												
75%	Vnom	143.29	28.212	91.185												
100%	Vnom	187.71	28.227	91.358												
10%	Vmax	17.698	35.944	79.640												
20%	Vmax	39.321	35.95	85.689												
30%	Vmax	58.29	35.953	88.179												
50%	Vmax	98.457	35.961	89.725												
75%	Vmax	143.44	35.975	90.672												
100%	Vmax	188.58	35.987	91.177												