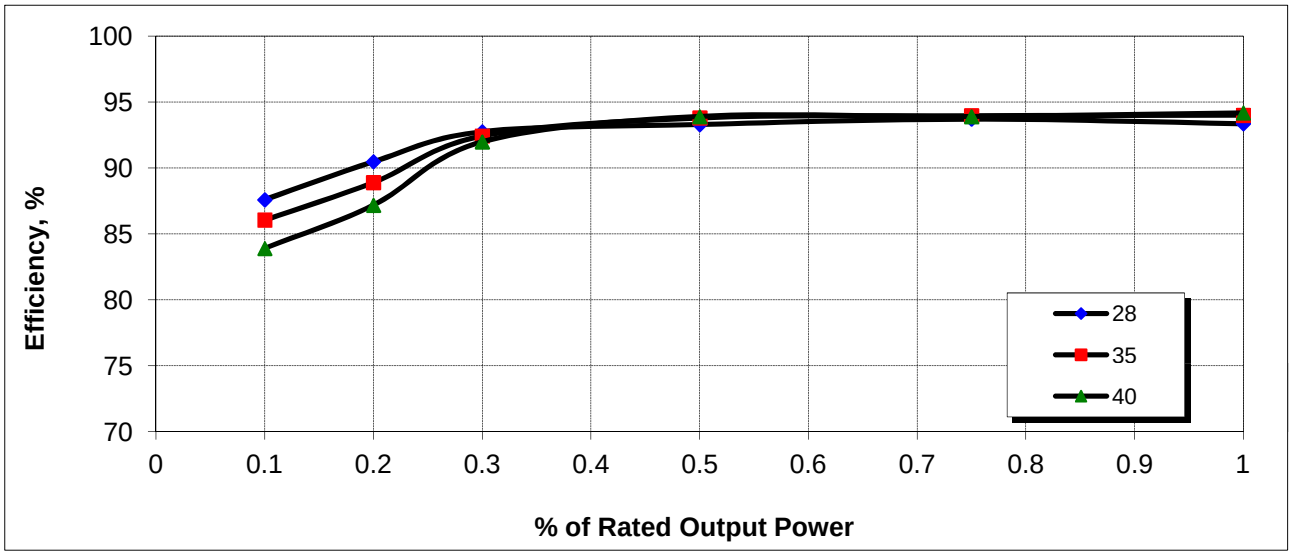
Manufacturer: INVOLAR Corporation, Ltd.
Model #: MAC250A-240-NA

Rated Maximum Continuous Output Power: 230.00 W Night Tare Loss: -0.11 W

Vmin: 28 Vdc Vnom: 35 Vdc Vmax: 40 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		23.00	46.00	69.00	115.00	172.50	230.00	Wtd
Vmin	28	87.6	90.5	92.8	93.3	93.7	93.4	93.1
Vnom	35	86.1	88.9	92.4	93.8	94.0	94.0	93.2
Vmax	40	83.9	87.2	92.0	93.9	93.9	94.2	92.9

CEC Efficiency = 93.0%



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	20.93	28.09	87.591	20.93	28.09	87.592	20.93	28.08	87.570	20.93	28.08	87.599	20.93	28.09	87.597
20%	Vmin	44.24	28.07	90.474	44.24	28.07	90.472	44.24	28.07	90.459	44.24	28.07	90.495	44.24	28.07	90.466
30%	Vmin	68.42	28.06	92.759	68.42	28.06	92.741	68.42	28.06	92.753	68.42	28.06	92.772	68.42	28.06	92.753
50%	Vmin	114.20	28.02	93.297	114.21	28.02	93.272	114.22	28.02	93.285	114.24	28.02	93.311	114.24	28.01	93.345
75%	Vmin	172.17	28.08	93.702	172.17	28.08	93.717	172.16	28.08	93.706	172.16	28.08	93.695	172.16	28.08	93.726
100%	Vmin	227.22	28.03	93.367	227.18	28.03	93.340	227.19	28.03	93.359	227.20	28.03	93.367	227.18	28.03	93.369
10%	Vnom	20.93	35.00	86.072	20.92	35.00	86.075	20.92	35.00	86.054	20.92	35.00	86.045	20.92	35.00	86.042
20%	Vnom	43.45	35.01	88.887	43.45	35.01	88.903	43.45	35.02	88.904	43.45	35.02	88.907	43.45	35.02	88.916
30%	Vnom	68.09	35.01	92.429	68.09	35.01	92.437	68.09	35.02	92.422	68.10	35.03	92.432	68.10	35.03	92.417
50%	Vnom	114.54	35.02	93.812	114.53	35.02	93.794	114.52	35.02	93.782	114.53	35.02	93.773	114.54	35.02	93.808
75%	Vnom	172.62	35.03	93.973	172.61	35.03	93.957	172.62	35.03	93.968	172.61	35.03	93.970	172.60	35.03	93.942
100%	Vnom	227.97	35.01	94.009	227.98	35.01	93.987	227.98	35.01	93.990	227.99	35.01	93.982	227.99	35.01	93.980
10%	Vmax	19.76	40.00	83.919	19.76	40.00	83.904	19.76	40.00	83.888	19.76	40.00	83.907	19.76	40.00	83.900
20%	Vmax	41.92	40.03	87.174	41.92	40.03	87.186	41.92	40.03	87.218	41.92	40.03	87.176	41.92	40.03	87.150
30%	Vmax	68.01	40.05	91.979	68.01	40.05	91.992	68.00	40.05	91.975	68.00	40.06	91.978	68.00	40.06	91.993
50%	Vmax	115.09	40.05	93.906	115.10	40.05	93.900	115.10	40.05	93.918	115.09	40.05	93.889	115.09	40.05	93.895
75%	Vmax	172.02	40.09	93.905	172.02	40.09	93.907	172.01	40.09	93.908	172.01	40.10	93.882	172.00	40.10	93.873
100%	Vmax	228.59	40.03	94.191	228.60	40.03	94.207	228.55	40.03	94.168	228.56	40.03	94.168	228.56	40.03	94.178

Specified		Sample #			Sample #			Sample #			Sample #			Sample #		
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															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															