Manufacturer: DARFON

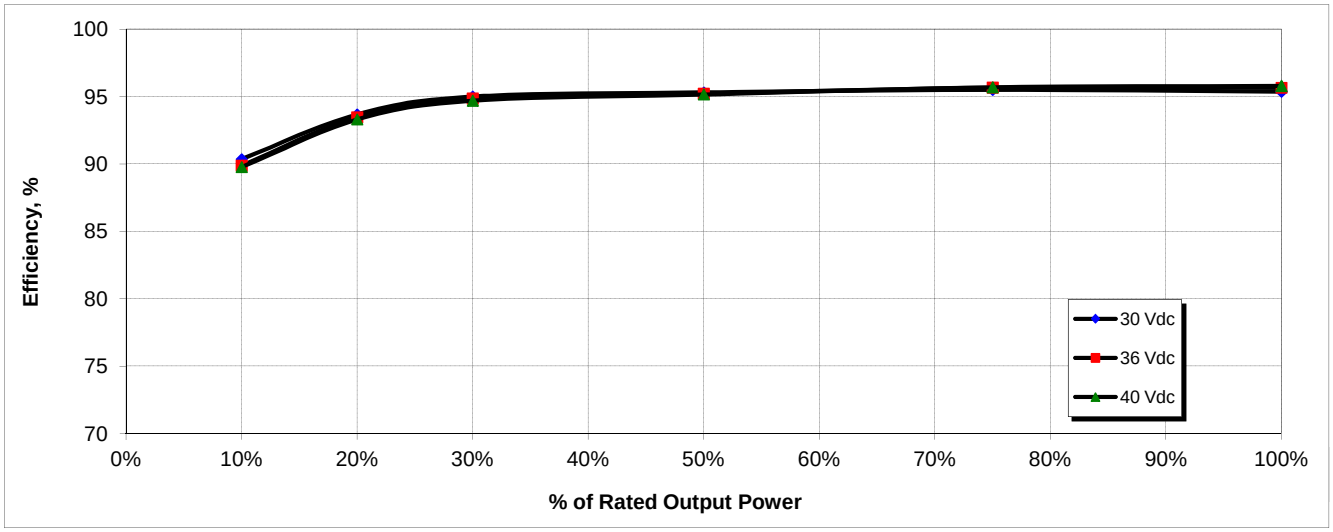
Model #: MIG300UL00

Rated Maximum Continuous Output Power: 0.25 kW Night Tare Loss: 0.089 W

Vmin: 30 Vdc Vnom: 36 Vdc Vmax: 40 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.03	0.05	0.08	0.13	0.19	0.25	Wtd
Vmin	30	90.3	93.7	95.0	95.3	95.5	95.4	95.1
Vnom	36	89.9	93.5	94.9	95.2	95.7	95.7	95.1
Vmax	40	89.8	93.3	94.7	95.2	95.7	95.8	95.1

CEC Efficiency = 95.0%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.0241	29.64	90.382	0.024	29.475	90.262	0.0241	29.608	90.364	0.0241	29.774	90.338	0.0242	29.534	90.400
20%	Vmin	0.0552	30.244	93.690	0.0552	30.066	93.656	0.0553	29.95	93.676	0.0552	30.313	93.681	0.0552	30.35	93.657
30%	Vmin	0.0843	30.17	94.987	0.0843	30.143	95.023	0.0843	30.249	94.998	0.0842	30.224	95.012	0.0843	30.099	94.978
50%	Vmin	0.1231	30.13	95.298	0.123	30.103	95.287	0.1231	29.961	95.314	0.1231	29.951	95.316	0.1231	30.012	95.335
75%	Vmin	0.2059	29.619	95.503	0.2059	29.655	95.497	0.2059	29.74	95.496	0.2059	29.632	95.498	0.2059	29.673	95.506
100%	Vmin	0.2453	29.471	95.381	0.2452	29.348	95.349	0.2453	29.475	95.343	0.2452	29.425	95.354	0.2452	29.367	95.362
10%	Vnom	0.0241	35.366	89.939	0.0241	35.229	89.952	0.0241	35.506	89.963	0.0239	34.936	89.765	0.0238	34.738	89.814
20%	Vnom	0.055	36.161	93.495	0.0549	36.179	93.495	0.0549	36.176	93.501	0.0549	36.309	93.391	0.0549	36.203	93.448
30%	Vnom	0.084	36.277	94.852	0.0841	36.131	94.907	0.0841	36.152	94.821	0.084	36.239	94.828	0.0841	36.312	94.895
50%	Vnom	0.1225	36.36	95.183	0.1226	36.269	95.207	0.1226	36.171	95.252	0.1225	36.365	95.216	0.1226	36.123	95.211
75%	Vnom	0.2069	35.804	95.670	0.2068	35.847	95.660	0.2068	35.859	95.674	0.2068	35.832	95.677	0.2069	35.826	95.683
100%	Vnom	0.2464	35.67	95.662	0.2463	35.522	95.666	0.2464	35.68	95.668	0.2464	35.627	95.658	0.2463	35.535	95.636
10%	Vmax	0.0237	37.854	89.942	0.0235	37.255	89.812	0.0236	37.63	89.796	0.0238	38.693	89.689	0.0237	37.867	89.610
20%	Vmax	0.055	40.419	93.353	0.055	40.239	93.321	0.055	40.323	93.272	0.055	40.304	93.256	0.055	40.274	93.348
30%	Vmax	0.0841	40.126	94.754	0.084	40.212	94.690	0.084	40.132	94.657	0.084	40.147	94.691	0.084	40.089	94.700
50%	Vmax	0.1226	40.38	95.160	0.1225	40.209	95.141	0.1227	39.918	95.178	0.1226	40.293	95.173	0.1227	40.03	95.152
75%	Vmax	0.2067	39.743	95.691	0.2067	39.826	95.697	0.2067	39.849	95.702	0.2068	39.769	95.710	0.2067	39.774	95.672
100%	Vmax	0.2466	39.778	95.800	0.2466	39.681	95.797	0.2465	39.605	95.787	0.2466	39.669	95.779	0.2466	39.703	95.779

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															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															