Manufacturer: Gefran S.p.A. Drive&Motion Control Unit

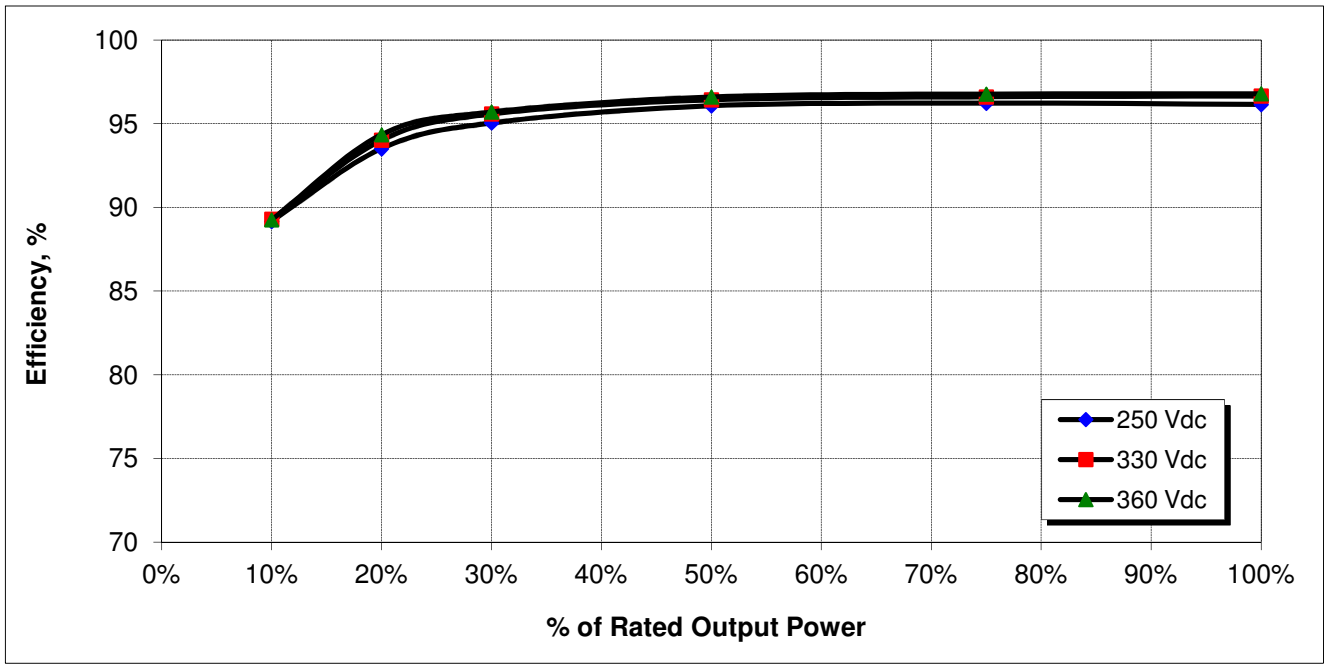
Model #: APV 1700-2M-TL-US (277 Vac)

Rated Maximum Continuous Output Power: 1.65 kW Night Tare Loss: 0.13 W

Vmin: 250 Vdc Vnom: 330 Vdc Vmax: 360 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.17	0.33	0.50	0.83	1.24	1.65	Wtd
Vmin	250	89.2	93.5	95.0	96.1	96.2	96.1	95.6
Vnom	330	89.3	94.0	95.6	96.4	96.6	96.7	96.0
Vmax	360	89.3	94.3	95.7	96.6	96.8	96.8	96.2

CEC Efficiency = 96.0%



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	0.1449	250.25	88.773	0.145	250.66	89.035	0.145	250.37	89.411	0.145	250.55	89.292	0.145	250.48	89.329
20%	Vmin	0.3187	250.34	93.543	0.319	250.62	93.457	0.319	250.6	93.496	0.318	250.55	93.536	0.318	250.51	93.495
30%	Vmin	0.4818	250.43	95.058	0.482	250.36	95.038	0.481	250.61	95.023	0.483	250.49	95.042	0.482	250.68	95.053
50%	Vmin	0.8377	250.39	96.071	0.838	250.48	96.072	0.836	250.51	96.059	0.837	250.45	96.067	0.838	250.42	96.069
75%	Vmin	1.2112	250.4	96.225	1.212	250.36	96.227	1.212	250.72	96.224	1.211	250.58	96.221	1.212	250.4	96.220
100%	Vmin	1.6257	250.51	96.148	1.626	250.55	96.148	1.626	250.49	96.148	1.627	250.6	96.142	1.625	250.44	96.145
10%	Vnom	0.1449	330.39	89.337	0.144	330.57	89.127	0.145	330.51	89.317	0.145	330.52	89.367	0.145	330.58	89.334
20%	Vnom	0.3185	330.39	94.103	0.319	330.48	94.023	0.32	330.36	93.919	0.319	330.41	94.006	0.319	330.63	94.028
30%	Vnom	0.4824	330.61	95.505	0.482	330.33	95.490	0.484	330.4	95.919	0.483	330.29	95.490	0.482	330.62	95.512
50%	Vnom	0.8369	330.62	96.473	0.838	330.47	96.470	0.836	330.46	96.260	0.837	330.45	96.470	0.837	330.5	96.471
75%	Vnom	1.2116	330.63	96.601	1.212	330.6	96.602	1.211	330.51	96.609	1.212	330.32	96.605	1.213	330.48	96.608
100%	Vnom	1.6267	330.23	96.642	1.625	330.4	96.655	1.624	330.41	96.655	1.625	330.67	96.654	1.625	330.4	96.655
10%	Vmax	0.1446	360.45	89.242	0.145	360.53	89.267	0.145	360.44	89.280	0.145	360.55	89.235	0.145	360.19	89.271
20%	Vmax	0.3179	360.52	94.393	0.319	360.6	94.416	0.319	360.34	94.289	0.318	360.63	94.399	0.318	360.33	94.219
30%	Vmax	0.4813	360.58	95.673	0.482	360.29	95.688	0.481	360.4	95.703	0.481	360.56	95.704	0.481	360.41	95.707
50%	Vmax	0.8381	360.61	96.606	0.838	360.62	96.587	0.837	360.51	96.589	0.838	360.25	96.593	0.838	360.56	96.595
75%	Vmax	1.2136	360.66	96.750	1.213	360.56	96.742	1.213	360.38	96.742	1.213	360.55	96.873	1.208	360.56	96.738
100%	Vmax	1.6224	360.43	96.780	1.624	360.58	96.782	1.625	360.55	96.782	1.625	360.5	96.784	1.626	360.55	96.787

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(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															