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

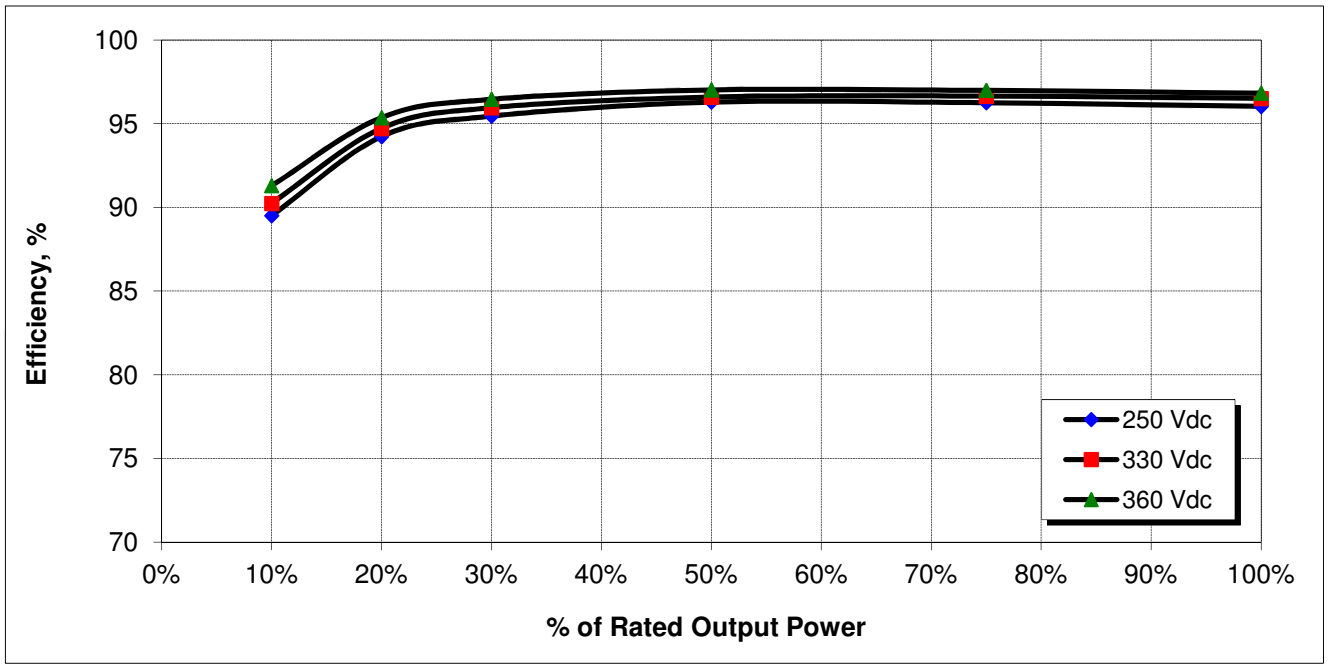
Model #: APV 1700-2M-TL-US (240 Vac)

Rated Maximum Continuous Output Power: 1.65 kW Night Tare Loss: 0.11 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	89.5	94.2	95.5	96.3	96.3	96.0	95.8
Vnom	330	90.2	94.7	95.9	96.6	96.6	96.5	96.2
Vmax	360	91.3	95.4	96.5	97.0	97.0	96.8	96.6

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	250.56	89.367	0.145	250.34	89.511	0.145	250.41	89.553	0.145	250.47	89.538	0.145	250.59	89.565
20%	Vmin	0.3192	250.57	94.206	0.318	250.57	94.183	0.319	250.32	94.217	0.319	250.31	94.217	0.318	250.6	94.328
30%	Vmin	0.4823	250.57	95.475	0.482	250.41	95.457	0.482	250.62	95.459	0.482	250.39	95.457	0.482	250.24	95.431
50%	Vmin	0.8359	250.63	96.289	0.837	250.53	96.286	0.837	250.53	96.294	0.836	250.51	96.291	0.837	250.49	96.288
75%	Vmin	1.209	250.63	96.250	1.21	250.38	96.250	1.211	250.43	96.253	1.21	250.56	96.259	1.21	250.57	96.249
100%	Vmin	1.6236	250.6	96.036	1.626	250.51	96.033	1.625	250.36	96.034	1.624	250.46	96.033	1.625	250.34	96.029
10%	Vnom	0.1447	330.62	90.314	0.145	330.37	90.214	0.145	330.43	90.208	0.145	330.34	90.234	0.145	330.58	90.215
20%	Vnom	0.3189	330.62	94.673	0.318	330.49	94.752	0.319	330.32	94.713	0.319	330.47	94.703	0.318	330.42	94.726
30%	Vnom	0.4817	330.55	95.955	0.482	330.34	95.944	0.482	330.32	95.942	0.482	330.41	95.951	0.482	330.63	95.941
50%	Vnom	0.8362	330.34	96.600	0.837	330.49	96.613	0.837	330.57	96.618	0.836	330.59	96.621	0.837	330.49	96.457
75%	Vnom	1.2086	330.55	96.646	1.209	330.46	96.643	1.209	330.38	96.644	1.209	330.41	96.642	1.211	330.3	96.643
100%	Vnom	1.6233	330.52	96.505	1.625	330.4	96.509	1.626	330.55	96.509	1.625	330.42	96.510	1.624	330.5	96.515
10%	Vmax	0.1447	360.48	91.272	0.145	360.53	91.315	0.145	360.43	91.358	0.145	360.42	91.275	0.145	360.54	91.282
20%	Vmax	0.3184	360.44	95.458	0.319	360.6	95.291	0.319	360.51	95.356	0.318	360.65	95.423	0.318	360.54	95.291
30%	Vmax	0.4814	360.56	96.454	0.481	360.46	96.478	0.482	360.61	96.468	0.481	360.43	96.476	0.482	360.6	96.429
50%	Vmax	0.8371	360.53	97.058	0.837	360.28	96.935	0.836	360.52	97.040	0.837	360.6	97.045	0.836	360.59	97.037
75%	Vmax	1.2095	360.47	96.948	1.208	360.4	97.005	1.209	360.5	97.002	1.209	360.51	97.001	1.207	360.32	97.003
100%	Vmax	1.6228	360.62	96.820	1.624	360.36	96.820	1.625	360.33	96.825	1.625	360.48	96.824	1.623	360.38	96.822

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															