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

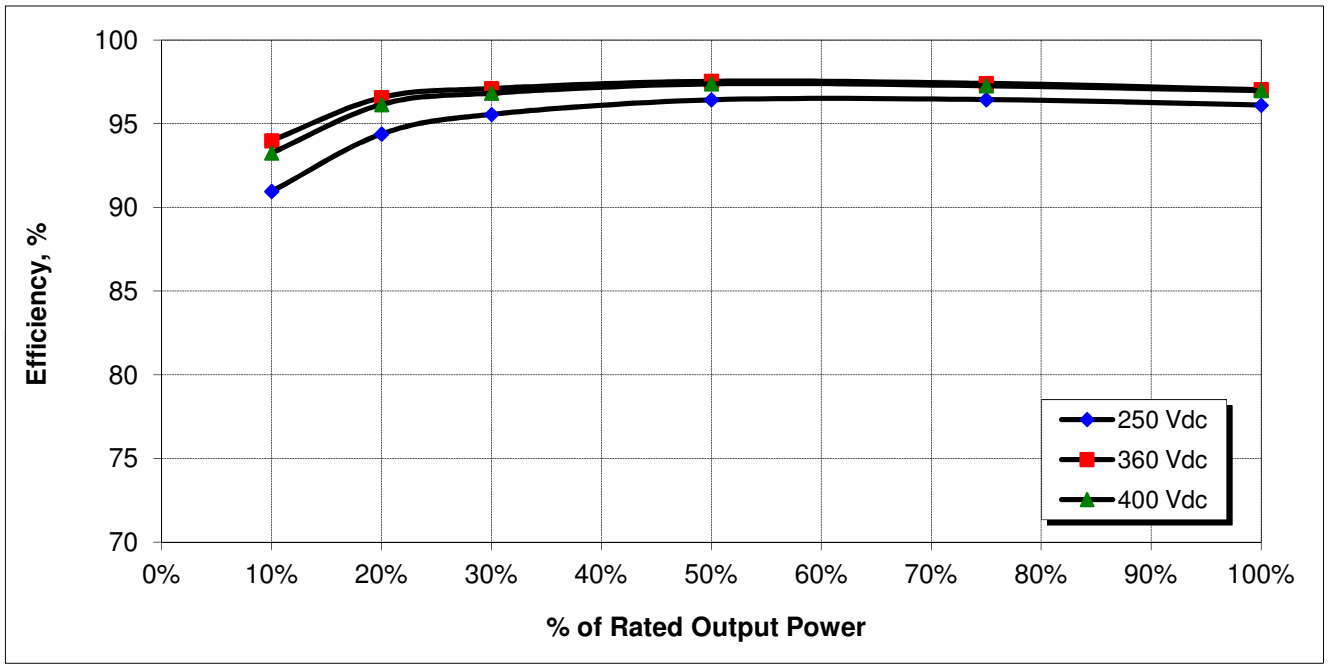
Model #: APV 3100-2M-TL-US (240 Vac)

Rated Maximum Continuous Output Power: 2.80 kW Night Tare Loss: 0.15 W

Vmin: 250 Vdc Vnom: 360 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.28	0.56	0.84	1.40	2.10	2.80	Wtd
Vmin	250	91.0	94.4	95.6	96.4	96.4	96.1	96.0
Vnom	360	94.0	96.6	97.1	97.5	97.4	97.0	97.2
Vmax	400	93.3	96.1	96.8	97.4	97.3	97.0	97.0

CEC Efficiency = 96.5%



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	0.246	250.43	91.188	0.246	250.5	91.371	0.245	250.45	90.917	0.245	250.63	90.745	0.245	250.66	90.553
20%	Vmin	0.536	250.64	94.258	0.537	250.59	94.411	0.537	250.43	94.399	0.538	250.48	94.399	0.538	250.49	94.405
30%	Vmin	0.7973	250.52	95.548	0.796	250.42	95.538	0.797	250.38	95.556	0.798	250.37	95.559	0.796	248.83	95.554
50%	Vmin	1.3571	250.6	96.411	1.356	250.46	96.417	1.358	250.51	96.417	1.357	250.43	96.422	1.356	250.5	96.427
75%	Vmin	1.985	250.65	96.424	1.986	250.38	96.433	1.988	250.52	96.437	1.985	250.55	96.443	1.984	250.33	96.444
100%	Vmin	2.7997	250.46	96.006	2.803	250.5	96.117	2.802	250.7	96.123	2.805	250.28	96.179	2.806	250.64	96.110
10%	Vnom	0.2448	360.63	94.006	0.245	360.4	94.012	0.246	360.37	93.994	0.245	360.47	93.968	0.245	360.45	93.947
20%	Vnom	0.5375	360.33	96.737	0.537	360.69	96.517	0.537	360.5	96.515	0.537	360.55	96.516	0.536	360.6	96.503
30%	Vnom	0.7985	360.6	97.108	0.797	360.55	97.025	0.799	360.33	97.119	0.797	360.4	97.121	0.797	360.63	97.131
50%	Vnom	1.358	360.48	97.545	1.358	360.46	97.538	1.358	360.55	97.507	1.358	360.33	97.546	1.358	360.54	97.546
75%	Vnom	1.9866	360.55	97.409	1.986	360.57	97.407	1.986	360.29	97.408	1.988	360.5	97.406	1.982	360.59	97.406
100%	Vnom	2.8043	360.55	97.030	2.803	360.42	97.033	2.805	360.67	97.035	2.807	360.46	97.037	2.802	360.61	97.033
10%	Vmax	0.2446	400.46	93.366	0.244	400.48	93.231	0.243	400.56	93.232	0.244	400.51	93.178	0.244	400.58	93.256
20%	Vmax	0.5353	400.44	96.160	0.535	400.56	96.149	0.535	400.28	96.135	0.536	400.36	96.148	0.536	400.6	96.143
30%	Vmax	0.7968	400.54	96.820	0.798	400.43	96.839	0.798	400.56	96.822	0.797	400.35	96.824	0.797	400.46	96.826
50%	Vmax	1.3577	400.59	97.378	1.358	400.53	97.382	1.358	400.34	97.377	1.357	400.64	97.382	1.357	400.34	97.372
75%	Vmax	1.9864	400.54	97.296	1.986	400.67	97.294	1.985	400.46	97.293	1.984	400.6	97.152	1.985	400.64	97.297
100%	Vmax	2.8009	400.37	97.023	2.802	400.52	96.972	2.804	400.45	96.973	2.803	400.47	96.969	2.804	400.41	96.968

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															