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

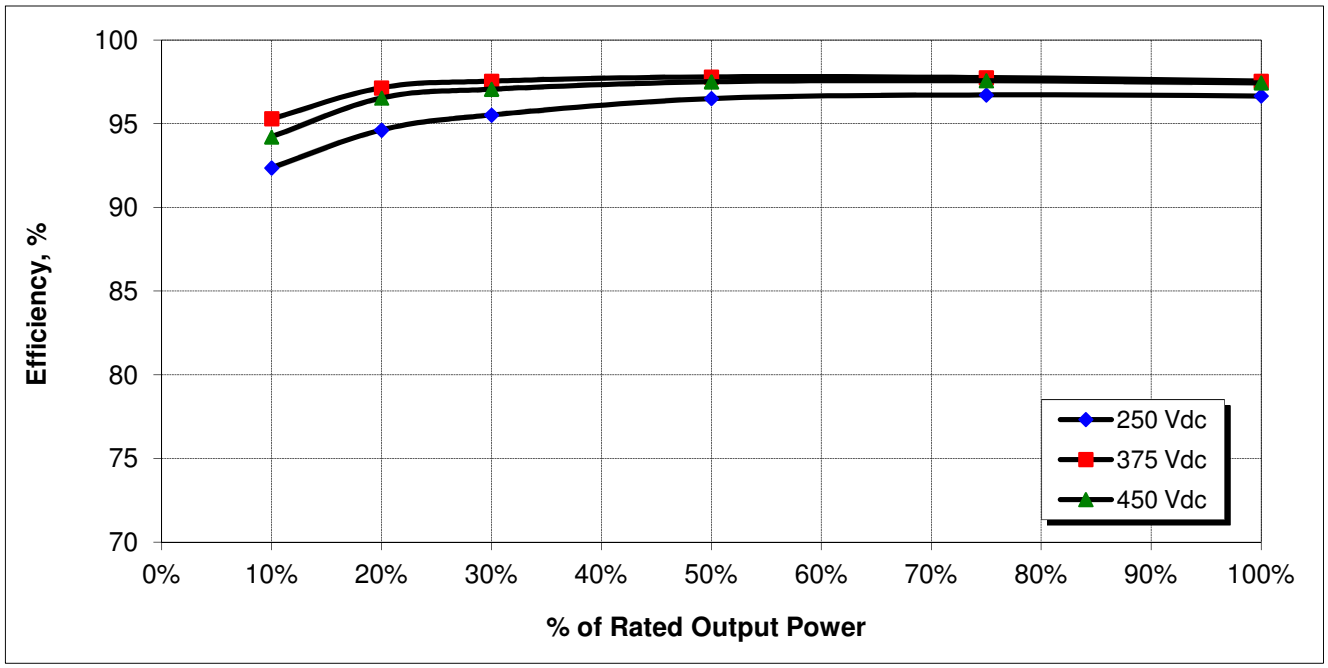
Model #: APV 3800-2M-TL-DM-US (240 Vac)

Rated Maximum Continuous Output Power: 3.60 kW Night Tare Loss: 0.31 W

Vmin: 250 Vdc Vnom: 375 Vdc Vmax: 450 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.36	0.72	1.08	1.80	2.70	3.60	Wtd
Vmin	250	92.4	94.6	95.5	96.5	96.7	96.7	96.2
Vnom	375	95.3	97.1	97.5	97.8	97.7	97.5	97.6
Vmax	450	94.2	96.5	97.1	97.5	97.6	97.4	97.3

CEC Efficiency = 97.0%



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	0.3566	250.48	92.649	0.355	250.53	92.186	0.355	250.44	92.317	0.354	250.46	92.241	0.355	250.46	92.404
20%	Vmin	0.7666	250.22	94.589	0.765	250.64	94.614	0.766	250.42	94.652	0.767	250.25	94.596	0.767	250.22	94.648
30%	Vmin	1.0583	250.75	95.513	1.058	250.85	95.526	1.059	250.46	95.522	1.059	250.94	95.509	1.058	250.65	95.515
50%	Vmin	1.859	250.61	96.484	1.86	250.62	96.483	1.859	250.62	96.485	1.858	250.61	96.485	1.861	250.61	96.561
75%	Vmin	2.7105	250.35	96.709	2.711	251.43	96.737	2.71	251.28	96.719	2.712	251.28	96.722	2.71	251.26	96.696
100%	Vmin	3.6097	250.96	96.642	3.612	250.28	96.658	3.615	250.22	96.670	3.613	250.25	96.663	3.611	250.25	96.651
10%	Vnom	0.3554	375.44	95.240	0.355	375.47	95.241	0.354	375.56	95.551	0.355	375.43	95.330	0.354	375.43	95.118
20%	Vnom	0.7671	375.43	97.141	0.767	375.4	97.143	0.765	375.38	97.136	0.767	375.45	97.149	0.767	375.38	97.143
30%	Vnom	1.0583	375.4	97.535	1.059	374.39	97.540	1.056	375.2	97.533	1.059	374.57	97.538	1.06	375.57	97.538
50%	Vnom	1.8589	375.12	97.791	1.862	375.13	97.792	1.86	375.13	97.790	1.861	375.13	97.791	1.862	375.12	97.794
75%	Vnom	2.7093	374.98	97.781	2.71	375	97.768	2.711	375.9	97.731	2.713	375.91	97.729	2.711	375.91	97.731
100%	Vnom	3.6136	375.64	97.543	3.612	375.69	97.538	3.611	375.67	97.536	3.613	375.66	97.532	3.609	375.67	97.531
10%	Vmax	0.3539	450.72	94.187	0.355	450.69	94.342	0.355	450.62	94.009	0.354	450.77	93.924	0.355	450.82	94.610
20%	Vmax	0.7657	450.77	96.531	0.765	450.77	96.533	0.765	450.74	96.544	0.765	450.82	96.547	0.766	450.69	96.506
30%	Vmax	1.0558	450.56	97.062	1.055	450.65	97.062	1.055	450.66	97.069	1.057	450.76	97.059	1.054	450.67	97.057
50%	Vmax	1.8593	450.55	97.503	1.86	450.55	97.500	1.858	450.55	97.502	1.858	450.55	97.504	1.859	450.55	97.508
75%	Vmax	2.7033	450.37	97.564	2.704	450.37	97.567	2.708	450.37	97.566	2.707	450.19	97.590	2.704	450.19	97.568
100%	Vmax	3.6134	450.19	97.448	3.613	450.2	97.442	3.608	450.19	97.442	3.612	450.19	97.440	3.613	450.19	97.441

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															