Manufacturer: Aeconversion GmbH & Co. KG

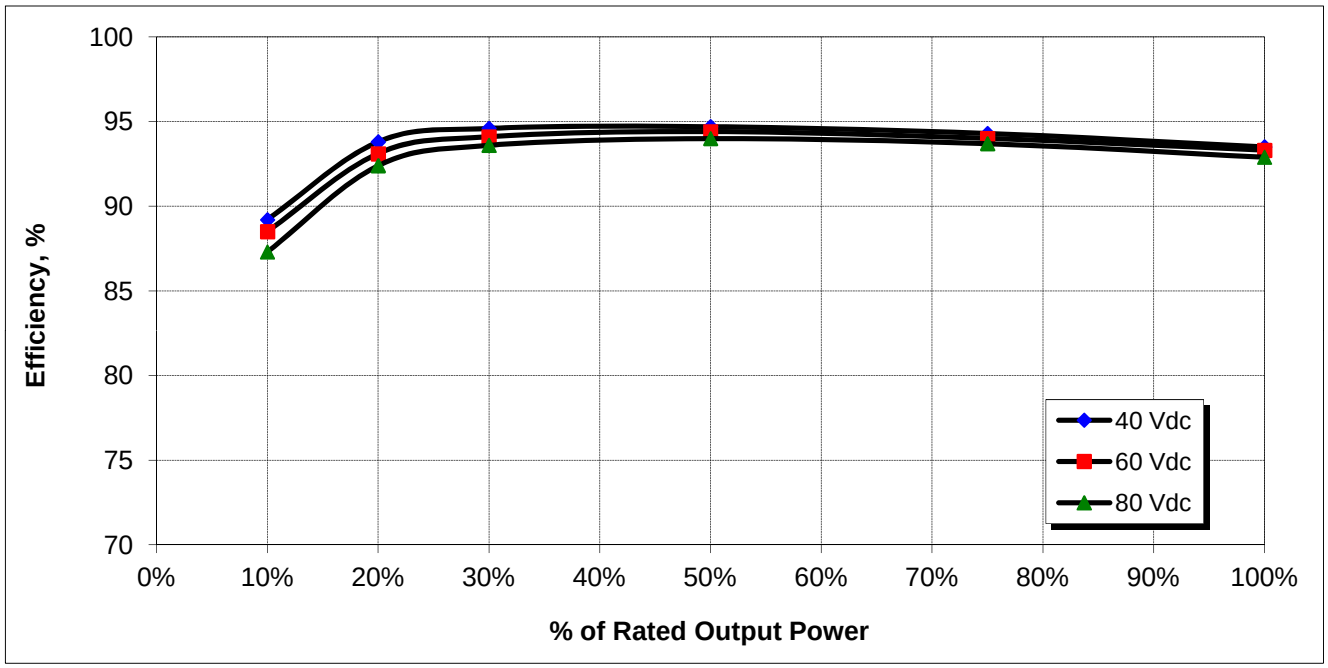
Model #: INV500-90US xxxxx (208V)

Rated Maximum Continuous Output Power: 0.480 kW Night Tare Loss: 0.028 W

Vmin: 40 Vdc Vnom: 60 Vdc Vmax: 80 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)								Wtd
Vmin	40	89.2	93.8	94.6	94.7	94.3	93.5	94.2
Vnom	60	88.5	93.1	94.1	94.4	94.0	93.3	93.8
Vmax	80	87.3	92.4	93.6	94.0	93.7	92.9	93.4

CEC Efficiency = 94.0%



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)	(%)	(W)	(Vdc)	(%)
10%	Vmin	45.649	40	89.233	45.64	40	89.221	45.671	40	89.228	45.645	40	89.211	45.652	40	89.218
20%	Vmin	103.95	40	93.751	104.1	40	93.755	104.2	40	93.75	104.29	40	93.749	104.38	40	93.748
30%	Vmin	152.5	40	94.571	152.6	40	94.573	152.71	40	94.566	152.81	40	94.571	152.89	40	94.567
50%	Vmin	262.54	40	94.697	262.6	40	94.701	262.69	40	94.7	262.81	40	94.7	262.9	40	94.7
75%	Vmin	337.17	40	94.343	337.2	40	94.344	337.25	40	94.345	337.26	40	94.345	337.29	40	94.349
100%	Vmin	458.18	40	93.55	458	40	93.542	457.71	40	93.533	457.53	40	93.525	457.29	40	93.52
10%	Vnom	46.808	60	88.486	46.85	60	88.499	46.833	60	88.481	46.852	60	88.488	46.861	60	88.495
20%	Vnom	104.2	60	93.122	104.2	60	93.11	104.28	60	93.109	104.27	60	93.102	104.29	60	93.102
30%	Vnom	153.66	60	94.144	153.7	60	94.138	153.76	60	94.135	153.81	60	94.132	153.83	60	94.128
50%	Vnom	262.4	60	94.361	262.4	60	94.364	262.43	60	94.363	262.47	60	94.363	262.46	60	94.361
75%	Vnom	337.79	60	94.039	337.8	60	94.044	337.83	60	94.048	337.86	60	94.05	337.92	60	94.052
100%	Vnom	457.41	60	93.309	457.2	60	93.282	457.14	60	93.27	457	60	93.263	456.96	60	93.254
10%	Vmax	45.441	80	87.116	45.4	80	87.369	45.344	80	87.334	45.429	80	87.296	45.48	80	87.206
20%	Vmax	102.89	80	92.34	103	80	92.283	102.98	80	92.443	103.05	80	92.436	102.99	80	92.444
30%	Vmax	153.63	80	93.672	153.7	80	93.572	153.76	80	93.696	153.77	80	93.505	153.91	80	93.523
50%	Vmax	262.08	80	94.031	261.8	80	93.954	262.03	80	94.039	262.63	80	93.996	262.64	80	94.018
75%	Vmax	339.62	80	93.697	339.3	80	93.688	339.28	80	93.703	340.4	80	93.753	340.42	80	93.721
100%	Vmax	459.75	80	92.919	469.1	80	92.937	459	80	92.913	458.88	80	92.887	458.75	80	92.871

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															