Manufacturer: Aeconversion GmbH & Co. KG

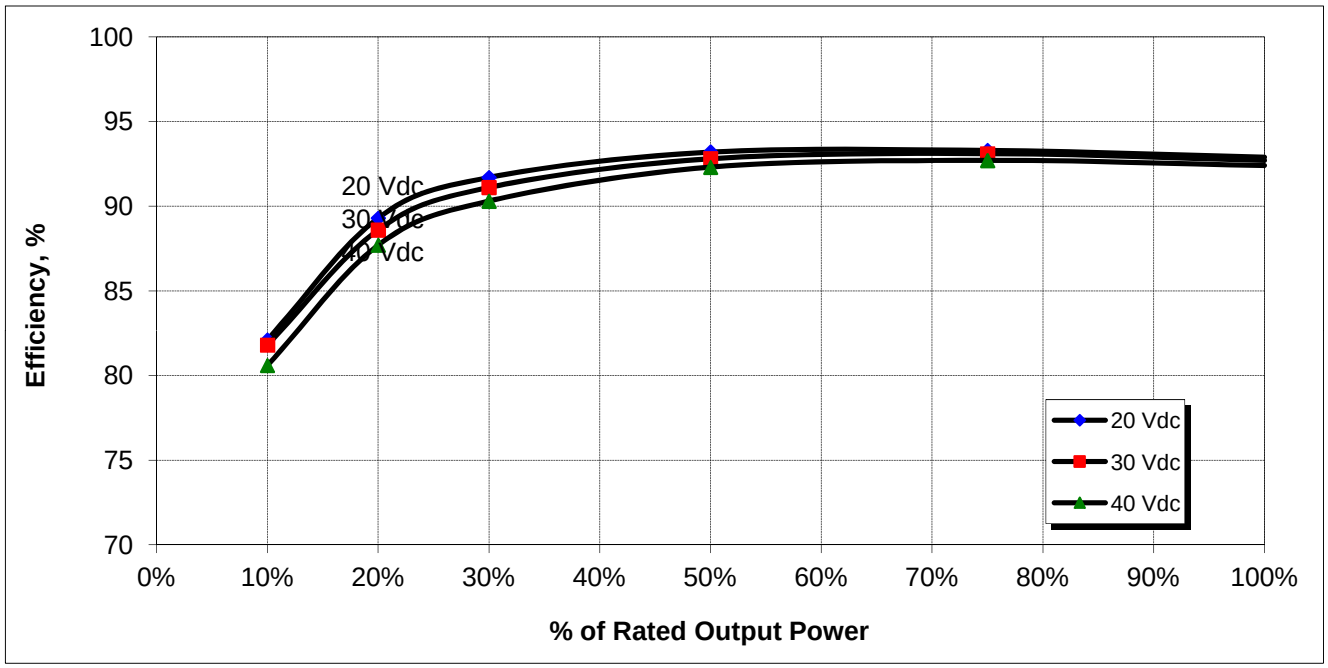
Model #: INV250-45US xxxxx (240V)

Rated Maximum Continuous Output Power: 0.242 kW Night Tare Loss: 0.027 W

Vmin: 20 Vdc Vnom: 30 Vdc Vmax: 40 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)								Wtd
Vmin	20	82.1	89.3	91.7	93.2	93.3	92.9	92.4
Vnom	30	81.8	88.6	91.1	92.8	93.1	92.7	92.1
Vmax	40	80.6	87.7	90.3	92.3	92.7	92.4	91.6

CEC Efficiency = 92.0%



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	23.836	20	82.058	23.85	20	82.189	23.736	20	82.178	23.744	20	82.146	23.805	20	82.071
20%	Vmin	49.241	20	89.387	49.26	20	89.218	49.269	20	89.421	49.313	20	89.200	49.330	20	89.398
30%	Vmin	73.874	20	91.613	73.89	20	91.659	73.908	20	91.641	73.906	20	91.737	73.942	20	91.634
50%	Vmin	122.32	20	93.125	122.3	20	93.169	122.395	20	93.159	122.417	20	93.152	122.449	20	93.176
75%	Vmin	176.2	20	93.349	176.2	20	93.340	176.214	20	93.345	176.164	20	93.370	176.165	20	93.336
100%	Vmin	239.49	20	92.925	239.4	20	92.878	239.354	20	92.979	239.164	20	92.946	239.195	20	92.917
10%	Vnom	23.69	30	81.730	23.72	30	81.657	23.696	30	81.840	23.707	30	81.745	23.733	30	81.854
20%	Vnom	48.891	30	88.570	48.96	30	88.711	48.987	30	88.739	48.986	30	88.572	48.953	30	88.525
30%	Vnom	73.474	30	91.118	73.54	30	91.204	73.571	30	91.134	73.590	30	91.060	73.612	30	91.225
50%	Vnom	121.07	30	92.798	121.1	30	92.769	121.175	30	92.780	121.192	30	92.778	121.181	30	92.792
75%	Vnom	178.93	30	93.135	179	30	93.020	178.953	30	93.000	178.974	30	93.083	179.017	30	93.065
100%	Vnom	240.37	30	92.711	240.4	30	92.767	240.382	30	92.697	240.372	30	92.730	240.368	30	92.672
10%	Vmax	23.417	40	80.484	23.48	40	80.619	23.484	40	80.660	23.519	40	80.253	23.535	40	81.094
20%	Vmax	47.981	40	87.709	47.99	40	87.617	48.037	40	87.691	48.006	40	87.745	48.025	40	87.681
30%	Vmax	71.58	40	90.381	71.6	40	90.214	71.790	40	90.354	71.702	40	90.388	71.735	40	90.322
50%	Vmax	120.12	40	92.364	120.2	40	92.340	120.109	40	92.303	120.207	40	92.384	120.251	40	92.251
75%	Vmax	179.64	40	92.682	179.7	40	92.740	179.740	40	92.690	179.794	40	92.689	179.779	40	92.669
100%	Vmax	240.12	40	92.380	240.1	40	92.422	240.024	40	92.399	240.060	40	92.381	240.057	40	92.386

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															