Manufacturer: Aeconversion GmbH & Co. KG

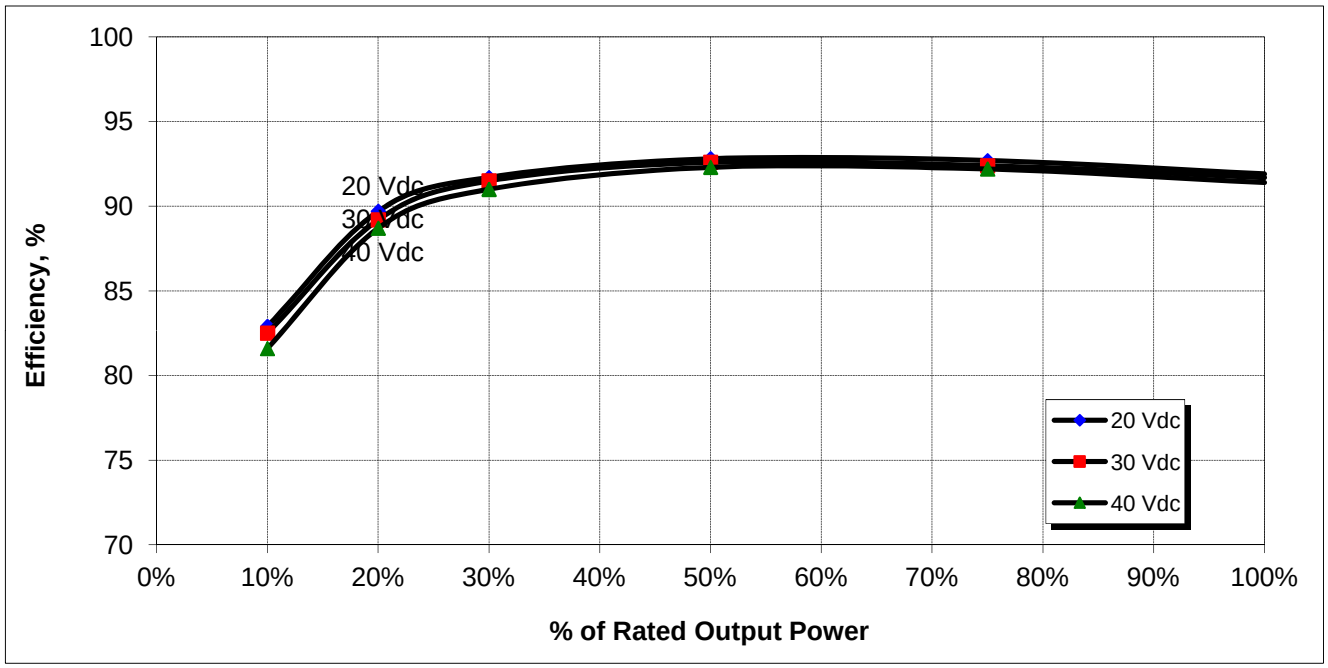
Model #: INV250-45US xxxxx (208V)

Rated Maximum Continuous Output Power: 0.241 kW Night Tare Loss: 0.0224 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	82.9	89.7	91.7	92.8	92.7	91.9	92.0
Vnom	30	82.5	89.2	91.5	92.6	92.4	91.7	91.7
Vmax	40	81.6	88.7	91.0	92.3	92.2	91.4	91.4

CEC Efficiency = 91.5%



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)	(%)	(W)	(Vdc)	(%)
10%	Vmin	23.699	20	82.818	23.71	20	82.892	23.67	20	83.028	23.74	20	82.852	23.76	20	83.008
20%	Vmin	48.46	20	89.616	48.48	20	89.663	48.51	20	89.694	48.53	20	89.768	48.56	20	89.702
30%	Vmin	71.889	20	91.764	71.94	20	91.665	71.97	20	91.568	72	20	91.693	72.01	20	91.664
50%	Vmin	120.26	20	92.812	120.3	20	92.854	120.3	20	92.859	120.4	20	92.864	120.4	20	92.843
75%	Vmin	182.06	20	92.677	182.1	20	92.689	182.1	20	92.657	182.1	20	92.705	182.2	20	92.671
100%	Vmin	243.18	20	91.894	243.1	20	91.908	243.1	20	91.865	243	20	91.801	243	20	91.872
10%	Vnom	23.291	30	82.718	23.27	30	82.567	23.27	30	82.347	23.3	30	82.417	23.3	30	82.317
20%	Vnom	47.998	30	89.165	47.99	30	89.229	47.95	30	89.230	47.94	30	89.170	47.91	30	89.214
30%	Vnom	71.949	30	91.509	71.97	30	91.457	72.01	30	91.507	72.06	30	91.512	72.06	30	91.356
50%	Vnom	120.53	30	92.652	120.5	30	92.661	120.5	30	92.632	120.6	30	92.640	120.6	30	92.651
75%	Vnom	180.8	30	92.447	180.9	30	92.464	180.8	30	92.406	180.9	30	92.426	180.9	30	92.465
100%	Vnom	240.01	30	91.685	240	30	91.717	239.9	30	91.690	239.9	30	91.630	239.7	30	91.667
10%	Vmax	23.646	40	81.866	23.67	40	81.768	23.62	40	81.477	23.69	40	81.466	23.67	40	81.494
20%	Vmax	48.175	40	88.487	48.18	40	88.801	48.19	40	88.881	48.25	40	88.757	48.27	40	88.692
30%	Vmax	71.629	40	91.010	71.63	40	90.980	71.7	40	91.030	71.68	40	90.916	71.73	40	90.034
50%	Vmax	120.28	40	92.210	120.3	40	92.287	120.3	40	92.394	120.3	40	92.244	120.3	40	92.363
75%	Vmax	179.91	40	92.175	179.9	40	91.179	180	40	92.186	179.9	40	92.191	179.9	40	92.211
100%	Vmax	242.65	40	91.350	242.6	40	91.421	242.7	40	91.409	242.6	40	91.341	242.6	40	91.407

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															