Manufacturer: Advanced Energy Industries, Inc.

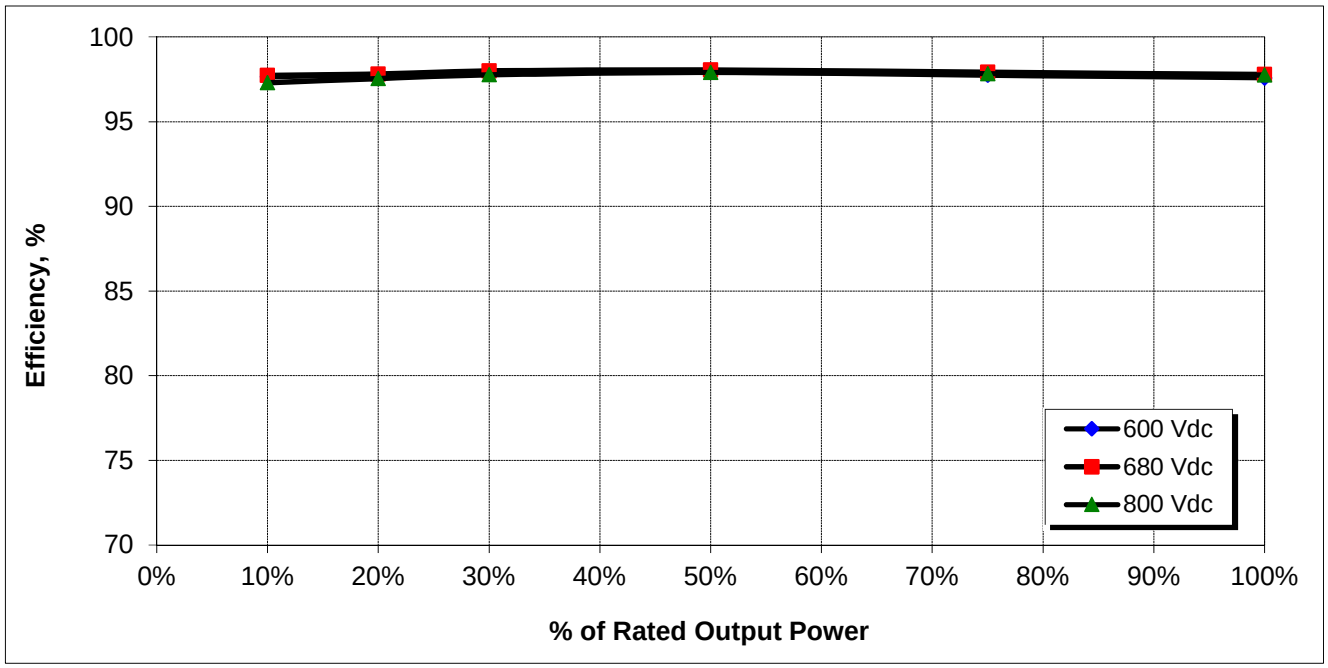
Model #: AE_3TL-G3_24_10

Rated Maximum Continuous Output Power: 23.83 kW Night Tare Loss: 0.73 W

Vmin: 600 Vdc Vnom: 680 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		2.38	4.77	7.15	11.92	17.87	23.83	Wtd
Vmin	600	97.7	97.8	97.9	97.9	97.7	97.6	97.8
Vnom	680	97.7	97.8	98.0	98.1	97.9	97.8	97.9
Vmax	800	97.3	97.5	97.8	97.9	97.8	97.8	97.8

CEC Efficiency = 98.0%



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	2338	601.5	97.669	2338	601.5	97.658	2338	601.5	97.656	2338	601.5	97.662	2338	601.5	97.652
20%	Vmin	5157	601.6	97.784	5157	601.5	97.782	5157	601.5	97.785	5157	601.5	97.781	5157	601.5	97.784
30%	Vmin	7634	601.3	97.913	7634	601.3	97.914	7634	601.3	97.913	7634	601.3	97.911	7632	601.3	97.912
50%	Vmin	12921	601	97.932	12920	601	97.934	12920	601	97.934	12920	601	97.935	12921	601	97.935
75%	Vmin	18753	600.5	97.742	18753	600.5	97.741	18753	600.5	97.741	18753	600.5	97.741	18753	600.5	97.742
100%	Vmin	22271	600.1	97.590	22271	600.1	97.588	22271	600.1	97.589	22271	600.1	97.587	22271	600.1	97.588
10%	Vnom	2339	682.1	97.744	2339	682.1	97.742	2339	682.1	97.738	2339	682.1	97.737	2339	682.1	97.742
20%	Vnom	5159	681.7	97.810	5162	681.7	97.813	5161	681.7	97.812	5161	681.7	97.813	5160	681.7	97.810
30%	Vnom	7635	681.3	97.995	7635	681.3	97.997	7634	681.3	97.996	7634	681.3	97.998	7635	681.3	97.997
50%	Vnom	12937	681.1	98.057	12937	681.1	98.057	12938	681.2	98.058	12938	681.2	98.058	12939	681.2	98.060
75%	Vnom	18795	680.9	97.914	18794	680.9	97.913	18794	680.9	97.914	18795	680.9	97.917	18794	680.9	97.915
100%	Vnom	22311	680.9	97.791	22311	680.9	97.793	22311	680.9	97.794	22312	680.9	97.794	22311	680.9	97.794
10%	Vmax	2328	802.2	97.301	2328	802.3	97.297	2328	802.3	97.301	2328	802.3	97.297	2328	802.3	97.310
20%	Vmax	5145	802.1	97.703	5142	802.1	97.506	5144	802.1	97.499	5141	802.1	97.504	5145	802.1	97.513
30%	Vmax	7614	802.3	97.763	7618	802.4	97.759	7616	802.4	97.762	7618	802.4	97.767	7616	802.4	97.766
50%	Vmax	12917	801.8	97.908	12917	801.9	97.910	12916	801.8	97.913	12916	801.8	97.910	12916	801.8	97.905
75%	Vmax	18773	802.3	97.834	18773	802.3	97.831	18773	802.3	97.834	18772	802.3	97.835	18772	802.3	97.831
100%	Vmax	22303	801.5	97.750	22304	801.5	97.753	22302	801.5	97.752	22303	801.5	97.750	22303	801.5	97.749

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															