Manufacturer: Advanced Energy Industries

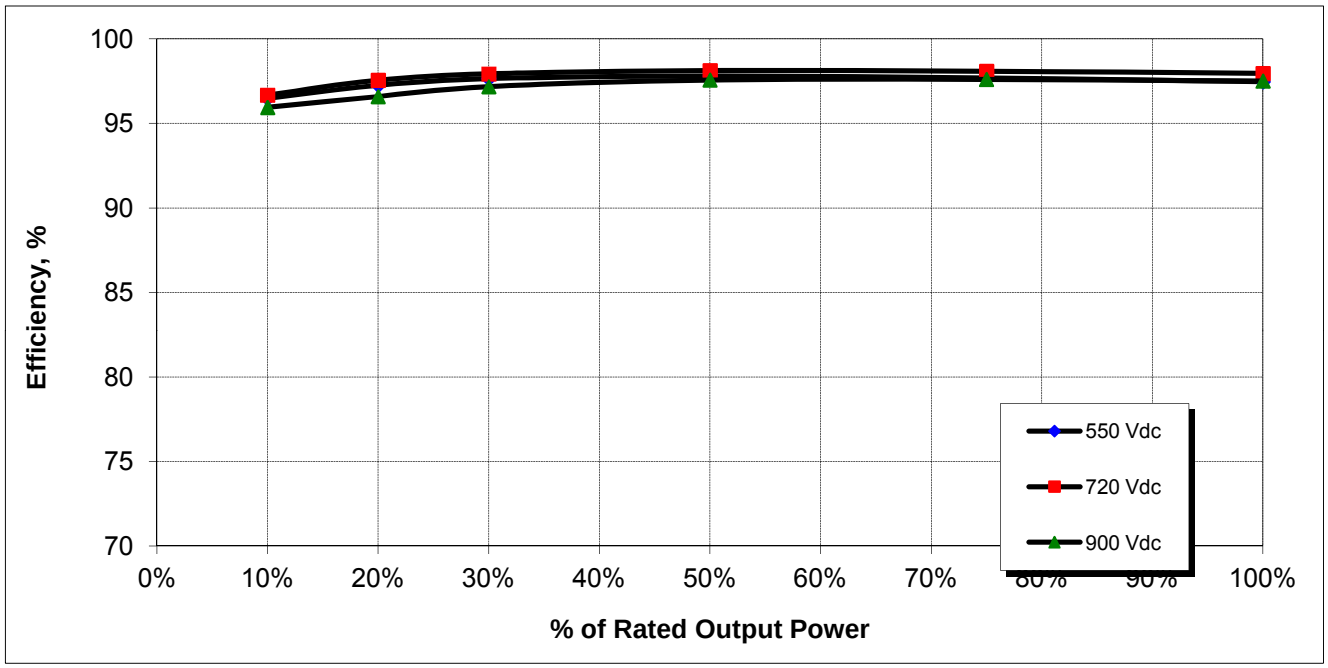
Model #: AE_3TL-20_6

Rated Maximum Continuous Output Power: 19.65 kW Night Tare Loss: 0.09 W

Vmin: 550 Vdc Vnom: 720 Vdc Vmax: 900 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1.97	3.93	5.90	9.83	14.74	19.65	Wtd
Vmin	550	96.5	97.3	97.7	97.8	97.7	97.5	97.6
Vnom	720	96.7	97.5	97.9	98.1	98.1	98.0	98.0
Vmax	900	96.0	96.6	97.2	97.6	97.6	97.5	97.4

CEC Efficiency = 97.5%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	1862	551	96.510	1862	551	96.462	1862	551	96.480	1863	551	96.492	1862	551	96.460
20%	Vmin	3725	551	97.256	3725	551	97.272	3725	551	97.254	3724	551	97.239	3725	551	97.254
30%	Vmin	5703	550	97.646	5703	550	97.643	5702	550	97.651	5703	550	97.655	5704	550	97.668
50%	Vmin	9670	550	97.828	9673	550	97.798	9671	550	97.816	9670	550	97.812	9672	550	97.800
75%	Vmin	14627	550	97.683	14629	550	97.666	14628	550	97.690	14626	550	97.671	14628	550	97.690
100%	Vmin	19571	550	97.469	19569	550	97.459	19573	550	97.460	19571	550	97.466	19568	550	97.468
10%	Vnom	1915	721	96.602	1915	721	96.674	11915	721	96.675	1915	721	96.673	1916	721	96.655
20%	Vnom	3820	721	97.543	3819	721	97.543	3822	721	97.556	3819	721	97.559	3819	721	97.551
30%	Vnom	5796	721	97.938	5795	721	97.919	5795	721	97.914	5795	721	97.936	5794	721	97.917
50%	Vnom	9763	721	98.123	9763	721	98.113	9764	721	98.113	9764	720	98.111	9764	721	98.113
75%	Vnom	14726	720	98.068	14725	720	98.077	14727	720	98.083	14726	720	98.069	14726	720	98.070
100%	Vnom	19687	720	97.969	19683	720	97.951	19682	720	97.951	19682	720	97.957	19685	720	97.958
10%	Vmax	1915	902	95.975	1913	902	95.845	1915	902	95.939	1916	902	95.982	1914	902	95.979
20%	Vmax	3815	902	96.617	3813	902	96.635	3816	902	96.562	3813	902	96.592	3811	902	96.574
30%	Vmax	5778	902	97.168	5781	902	97.175	5776	902	97.174	5777	902	97.178	5779	902	97.186
50%	Vmax	9736	902	97.564	9737	902	97.571	9734	902	97.592	9734	902	97.570	9736	902	97.576
75%	Vmax	14693	902	97.596	14693	902	97.609	14690	902	97.611	14693	902	97.602	14694	902	97.603
100%	Vmax	19645	901	97.516	19641	901	97.510	19645	901	97.512	19648	901	97.515	19643	901	97.509

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	1862	551	96.469	1863	551	96.507	1862	551	96.500	1861	551	96.429	1863	551	96.503
20%	Vmin	3724	551	97.267	3724	551	97.236	3724	551	97.266	3724	551	97.280	3724	551	97.238
30%	Vmin	5704	550	97.648	5703	550	97.669	5704	550	97.666	5703	550	97.641	5703	550	97.643
50%	Vmin	9672	550	97.799	9672	550	97.805	9671	550	97.823	9672	550	97.802	9672	550	97.811
75%	Vmin	14628	550	97.703	14627	550	97.705	14628	550	97.669	14629	550	97.702	14629	550	97.711
100%	Vmin	19570	550	97.463	19573	550	97.460	19750	550	97.466	19569	550	97.461	19572	550	97.464
10%	Vnom	1915	721	96.733	1915	721	96.680	1916	721	96.728	1915	721	96.627	1915	721	96.674
20%	Vnom	3821	721	97.576	3819	721	97.528	3817	721	97.555	3820	721	97.530	3821	721	97.536
30%	Vnom	5795	721	97.896	5797	721	97.930	5796	721	97.931	5794	721	97.919	5795	721	97.919
50%	Vnom	9764	721	98.114	97.62	721	98.113	9765	721	98.122	9746	721	98.117	9764	721	98.109
75%	Vnom	14727	720	98.077	14726	720	98.077	14725	720	98.067	14726	720	98.080	14728	720	98.084
100%	Vnom	19681	720	97.955	19684	720	97.958	19685	720	97.955	19683	720	97.954	19681	720	97.950
10%	Vmax	1914	902	95.995	1916	902	95.908	1914	902	95.961	1914	902	95.995	1915	902	95.924
20%	Vmax	3814	902	96.596	3813	902	96.603	3811	902	96.566	3812	902	96.545	3814	902	96.590
30%	Vmax	5778	902	97.182	5775	902	97.179	5777	902	97.152	5780	902	97.182	5775	902	97.187
50%	Vmax	9734	902	97.560	9733	902	97.564	9734	902	97.571	9736	902	97.575	9733	902	97.570
75%	Vmax	14689	902	97.614	14690	902	97.614	14694	902	97.620	14692	902	97.605	14687	902	97.608
100%	Vmax	19643	901	97.507	19649	901	97.505	19642	901	97.505	19641	901	97.502	19648	901	97.505