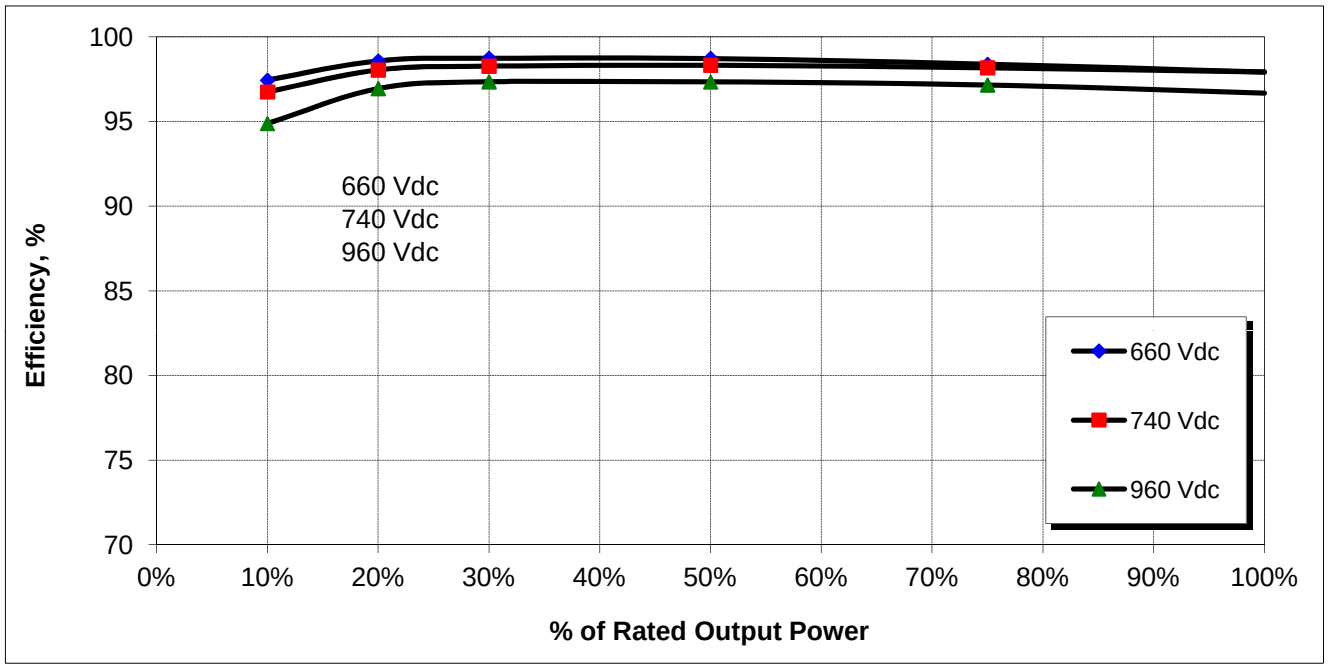
Manufacturer: Advanced Energy Industries, Inc (s/n 775310)
Model #: AE 500NX-HE; 3159502-XXXX

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 88.00 W

Vmin: 660 Vdc Vnom: 740 Vdc Vmax: 960 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	660	97.4	98.6	98.7	98.7	98.4	97.9	98.4
Vnom	740	96.7	98.0	98.3	98.3	98.2	97.9	98.1
Vmax	960	94.9	96.9	97.3	97.3	97.2	96.7	97.1

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	46673.33	664.10	97.41	47476.67	664.13	97.45	47510.00	664.13	97.44	47500.00	664.13	97.44	47490.00	664.17	97.42
20%	Vmin	108643.33	664.17	98.58	108510.00	664.17	98.58	108480.00	664.17	98.57	108563.33	664.20	98.58	108490.00	664.20	98.57
30%	Vmin	158970.00	665.13	98.73	158973.33	665.20	98.73	158866.67	665.13	98.73	158943.33	665.13	98.73	159116.67	665.17	98.73
50%	Vmin	229766.67	668.17	98.72	228993.33	668.13	98.72	228580.00	668.17	98.72	228220.00	668.10	98.72	228243.33	668.20	98.72
75%	Vmin	352606.67	668.20	98.39	352283.33	668.17	98.39	352623.33	668.10	98.39	352546.67	668.23	98.39	352490.00	668.20	98.38
100%	Vmin	478383.33	671.73	97.79	479093.33	668.83	97.93	477630.00	667.90	97.94	477163.33	667.53	97.93	476476.67	671.33	97.96
10%	Vnom	47843.33	736.20	96.73	47833.33	736.27	96.72	47810.00	736.30	96.72	48156.67	736.20	96.76	48163.33	736.27	96.77
20%	Vnom	107513.33	737.27	98.04	107563.33	737.30	98.04	107566.67	737.30	98.04	108010.00	737.30	98.05	108403.33	737.30	98.05
30%	Vnom	159156.67	738.20	98.27	159800.00	738.20	98.28	159836.67	738.20	98.27	159810.00	738.20	98.27	159896.67	738.20	98.28
50%	Vnom	230663.33	738.20	98.32	230760.00	738.20	98.32	230903.33	738.20	98.33	230990.00	738.20	98.32	231023.33	738.20	98.33
75%	Vnom	354683.33	738.20	98.19	354043.33	738.20	98.18	353620.00	738.20	98.18	352443.33	738.20	98.17	352576.67	738.20	98.18
100%	Vnom	477180.00	737.20	97.92	477050.00	737.23	97.92	477050.00	737.20	97.92	476980.00	737.17	97.92	477223.33	737.23	97.92
10%	Vmax	46853.33	942.10	94.88	46870.00	942.10	94.89	46843.33	942.10	94.88	46853.33	942.10	94.88	46813.33	942.10	94.88
20%	Vmax	107936.67	942.10	96.95	107963.33	942.10	96.95	107826.67	942.10	96.94	107783.33	942.07	96.94	107646.67	942.10	96.93
30%	Vmax	160033.33	943.90	97.34	160053.33	943.90	97.34	160086.67	943.90	97.34	160123.33	943.90	97.34	160150.00	943.90	97.34
50%	Vmax	230096.67	949.90	97.33	230096.67	949.90	97.33	230130.00	949.90	97.33	230120.00	949.90	97.34	230066.67	949.90	97.34
75%	Vmax	353063.33	949.83	97.16	353010.00	949.83	97.15	352983.33	949.87	97.16	353020.00	949.80	97.16	352960.00	949.80	97.15
100%	Vmax	477070.00	944.70	96.67	476926.67	944.70	96.67	476976.67	944.70	96.67	477043.33	944.67	96.67	476990.00	944.70	96.67

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	47743.33	664.13	97.46	47713.33	664.10	97.47									
20%	Vmin	108640.00	664.17	98.58	108743.33	664.20	98.59									
30%	Vmin	159080.00	665.13	98.73	159116.67	665.17	98.74									
50%	Vmin	228343.33	668.17	98.72	228273.33	668.20	98.72									
75%	Vmin	352510.00	668.23	98.39	352273.33	668.27	98.39									
100%	Vmin	477020.00	667.37	97.93	476983.33	668.63	97.97									
10%	Vnom	48143.33	736.27	96.76	48180.00	736.27	96.79									
20%	Vnom	108150.00	736.33	98.05	108980.00	736.30	98.07									
30%	Vnom	159923.33	738.20	98.28	159923.33	738.27	98.28									
50%	Vnom	231760.00	738.20	98.33	231793.33	738.20	98.34									
75%	Vnom	352560.00	738.20	98.17	352500.00	738.20	98.17									
100%	Vnom	477106.67	737.20	97.92	477096.67	737.23	97.92									
10%	Vmax	46843.33	942.10	94.88	46826.67	942.10	94.88									
20%	Vmax	108353.33	942.10	96.94	108770.00	942.07	96.95									
30%	Vmax	160060.00	943.90	97.34	160246.67	943.90	97.35									
50%	Vmax	229943.33	949.90	97.34	229983.33	949.90	97.34									
75%	Vmax	352870.00	949.80	97.16	352936.67	949.80	97.17									
100%	Vmax	476976.67	944.70	96.67	477086.67	944.70	96.67									