Manufacturer: Advanced Energy Industries

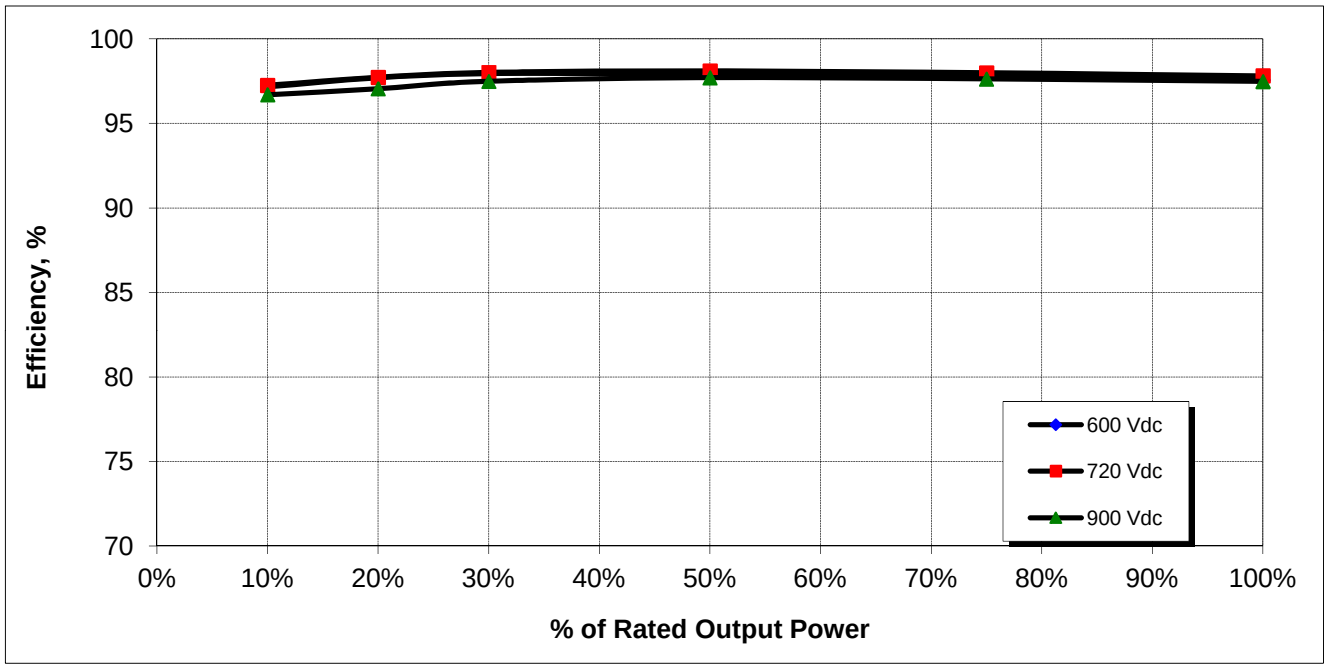
Model #: 804R024

Rated Maximum Continuous Output Power: 22.23 kW Night Tare Loss: 0.49 W

Vmin: 600 Vdc Vnom: 720 Vdc Vmax: 900 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		2.22	4.45	6.67	11.12	16.67	22.23	Wtd
Vmin	600	97.2	97.7	97.9	97.9	97.8	97.6	97.8
Vnom	720	97.3	97.7	98.0	98.1	98.0	97.8	98.0
Vmax	900	96.7	97.1	97.5	97.7	97.6	97.5	97.6

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	2275	601	97.186	2276	601	97.147	2275	601	97.164	2275	601	97.175	2276	601	97.145
20%	Vmin	4545	601	97.633	4545	601	97.677	4544	601	97.680	4545	601	97.655	4546	601	97.640
30%	Vmin	6925	601	97.940	6924	601	97.930	6923	601	97.923	6925	601	97.933	6924	601	97.944
50%	Vmin	11685	601	97.977	11685	601	97.970	11685	601	97.967	11686	601	97.979	11685	601	97.410
75%	Vmin	17633	601	97.803	17635	601	97.815	17630	601	97.804	17632	601	97.810	17635	601	97.793
100%	Vmin	23159	601	97.557	23161	601	97.545	23166	601	97.580	23161	601	97.546	23159	601	97.578
10%	Vnom	2311.6	720.78	97.243	2311	720.78	97.199	2311.1	720.77	97.265	2311	720.77	97.206	2311.9	720.78	97.251
20%	Vnom	4608.1	720.73	97.726	4606.6	720.72	97.730	4607.8	720.73	97.729	4608	720.74	97.730	4607.2	720.73	97.750
30%	Vnom	6985	720.66	98.005	6984.2	720.66	98.003	6984.6	720.66	98.030	6986	720.65	98.018	6986.3	720.66	98.017
50%	Vnom	11751	720.52	98.103	11747	720.52	98.102	11749	720.51	98.107	11749	720.52	98.107	11749	720.52	98.093
75%	Vnom	17700	750.43	97.992	17700	720.42	97.973	17703	720.42	97.997	17703	720.42	97.999	17701	720.42	97.988
100%	Vnom	23244	720.35	97.810	23242	720.36	97.807	23241	720.37	97.880	23243	720.38	97.809	23244	720.37	97.795
10%	Vmax	2308	902	96.648	2307	902	96.650	2305	902	96.720	2307	902	96.681	2306	902	96.668
20%	Vmax	4594	901	97.052	4595	901	97.033	4592	901	97.037	4592	901	97.057	4595	901	97.057
30%	Vmax	6962	901	97.475	6966	901	97.476	6962	901	97.473	6961	901	97.480	6963	901	97.495
50%	Vmax	11717	901	97.706	11716	901	97.694	11717	901	97.685	11718	901	97.695	11713	901	97.700
75%	Vmax	17668	901	97.633	17662	901	97.625	17661	901	97.620	17665	901	97.626	17663	901	97.625
100%	Vmax	22370	901	97.482	22324	901	97.488	22421	901	97.478	22387	901	97.470	22297	901	97.485

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	2276	601	97.157	2275	601	97.143	2276	601	97.164	2276	601	97.199	2275	601	97.170
20%	Vmin	4546	601	97.664	4545	601	97.970	4546	601	97.676	4546	601	97.677	4546	601	97.670
30%	Vmin	6925	601	97.941	6924	601	97.916	6925	601	97.935	6923	601	97.945			
50%	Vmin	11685	601	97.968	11686	601	97.976	11686	601	97.979	11684	601	97.970	11686	601	97.982
75%	Vmin	17630	601	97.824	17632	601	97.802	17634	601	97.801	17635	601	97.825	17633	601	97.787
100%	Vmin	23165	601	97.573	23161	601	97.570	23161	601	97.573	23162	601	97.565			
10%	Vnom	2310.8	720.79	97.252	2311.7	720.78	97.277	2311.3	720.79	97.282	2311	720.78	97.280	2311.4	720.79	97.280
20%	Vnom	4606.8	720.72	97.731	4607.3	720.72	97.677	4607.8	720.72	97.732						
30%	Vnom	6984.2	720.66	98.017	6984.6	720.66	97.990									
50%	Vnom	11748	720.51	98.105	11749	720.51	98.106	11750	720.51	98.105	11749	720.51	98.100	11748	720.51	98.109
75%	Vnom	17700	720.42	97.992	17703	720.41	97.988	17701	720.4	97.980	17698	720.4	97.987	17699	720.39	97.996
100%	Vnom	23241	720.38	97.791	23242	720.38	97.790	23245	720.37	97.799						
10%	Vmax	2305	902	96.680	2308	902	96.723	2307	902	96.708	2306	902	96.710	2306	902	96.748
20%	Vmax	4593	901	97.047	4591	901	97.070									
30%	Vmax	6963	901	97.504	6959	901	97.479	6961	901	97.477	6964	901	97.487	6961	901	97.520
50%	Vmax	11716	901	97.696	11718	901	97.712	11713	901	97.711						
75%	Vmax	17659	901	97.622	17664	901	97.628	17659	901	97.621	17663	901.11	97.620			
100%	Vmax	22383	901	97.483	22359	901	97.477	22370	901	97.484						