Manufacturer: SUSTAINABLE ENERGY

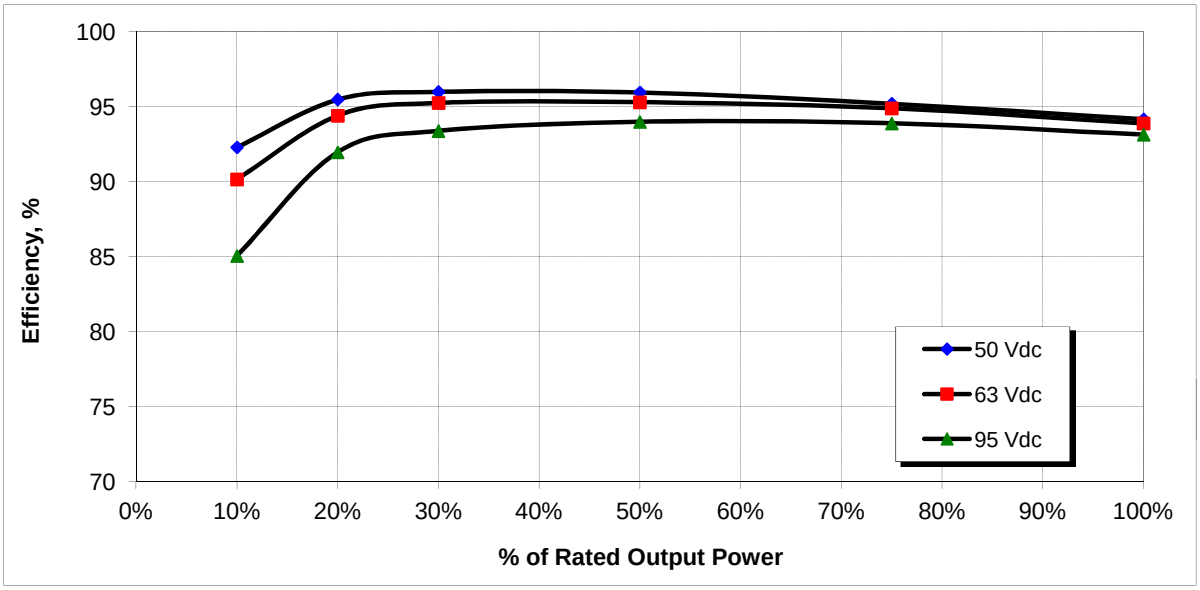
Model #: SUNERGY TENK240D

Rated Maximum Continuous Output Power @25°C: 5.0 kW Night Tare Loss: 0.19 W

Vmin: 50 Vdc Vnom: 63 Vdc Vmax: 95 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	50	92.3	95.5	96.0	96.0	95.2	94.2	95.3
Vnom	63	90.2	94.4	95.3	95.3	94.9	93.9	94.8
Vmax	95	85.1	92.0	93.4	94.0	93.9	93.1	93.4

CEC Efficiency = 94.5%



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	496.66	50.154	92.275	496.5	50.154	92.230	496.6	50.154	92.363	496.8	50.154	92.276	496.7	50.155	92.348
20%	Vmin	1085.2	50.111	95.455	1086	50.113	95.478	1085	50.111	95.466	1085	50.11	95.484	1085	50.11	95.520
30%	Vmin	1622.5	50.049	96.001	1623	50.049	96.027	1623	50.05	95.984	1623	50.051	95.988	1623	50.052	95.988
50%	Vmin	2255.1	50.124	95.954	2255	50.124	95.960	2255	50.124	95.966	2255	50.124	95.944	2255	50.123	95.955
75%	Vmin	3514.9	50.088	95.214	3514	50.076	95.207	3514	50.075	95.203	3514	50.067	95.204	3514	50.057	95.207
100%	Vmin	4756.1	50.083	94.183	4758	50.086	94.162	4758	50.076	94.167	4759	50.079	94.164	4760	50.077	94.152
10%	Vnom	485.06	63.188	90.193	485.2	63.188	90.142	485	63.188	90.143	485	63.188	90.136	485.1	63.188	90.069
20%	Vnom	1093.4	63.205	94.416	1093	63.205	94.413	1093	63.205	94.379	1093	63.205	94.393	1093	63.205	94.382
30%	Vnom	1617.1	63.217	95.274	1617	63.217	95.259	1617	63.219	95.249	1617	63.219	95.239	1617	63.219	95.264
50%	Vnom	2695.1	63.199	95.312	2695	63.201	95.301	2695	63.201	95.309	2695	63.201	95.290	2695	63.201	95.301
75%	Vnom	3510.4	63.17	94.909	3510	63.172	94.894	3510	63.172	94.900	3510	63.172	94.898	3511	63.173	94.893
100%	Vnom	4753.9	63.14	93.911	4754	63.147	93.897	4754	63.152	93.892	4754	63.156	93.883	4754	63.16	93.876
10%	Vmax	499.2	94.913	85.086	499.1	94.913	85.004	499.1	94.912	85.013	499.2	94.913	85.049	499	94.912	85.199
20%	Vmax	1086.5	94.944	91.982	1087	94.944	91.974	1087	94.943	91.930	1087	94.944	91.957	1087	94.944	91.996
30%	Vmax	1611.3	94.946	93.428	1612	94.944	93.388	1611	94.944	93.365	1612	94.944	93.338	1611	94.944	93.383
50%	Vmax	2747.8	94.966	94.005	2748	94.966	93.961	2748	94.965	93.993	2748	94.964	93.987	2748	94.963	93.975
75%	Vmax	3506.4	94.887	93.890	3506	94.887	93.891	3506	94.888	93.878	3506	94.887	93.887	3506	94.887	93.892
100%	Vmax	4759	94.978	93.150	4759	94.978	93.143	4759	94.977	93.134	4759	94.978	93.128	4758	94.978	93.126

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	496.65	50.155	92.239	496.6	50.155	92.324									
20%	Vmin	1085.3	50.11	95.471	1085	50.109	95.477									
30%	Vmin	1622.8	50.053	95.991	1623	50.053	96.022									
50%	Vmin	2255.4	50.123	95.974	2255	50.124	95.970									
75%	Vmin	3513.4	50.055	95.213	3513	50.045	95.213									
100%	Vmin	4760.9	50.08	94.165	4759	50.085	94.161									
10%	Vnom	485.13	63.188	90.207	485.1	63.188	90.172									
20%	Vnom	1093.6	63.205	94.400	1093	63.206	94.424									
30%	Vnom	1617.4	63.218	95.228	1617	63.219	95.267									
50%	Vnom	2695.4	63.203	95.302	2696	63.212	95.291									
75%	Vnom	3510.7	63.173	94.897	3510	63.174	94.897									
100%	Vnom	4754.3	63.162	93.872	4754	63.165	93.876									
10%	Vmax	499.07	94.912	84.952	499.3	94.912	85.053									
20%	Vmax	1086.6	94.944	91.945	1087	94.943	91.902									
30%	Vmax	1611.5	94.945	93.394	1611	94.945	93.377									
50%	Vmax	2748	94.963	93.998	2748	94.964	94.000									
75%	Vmax	3504.4	94.889	93.887	3489	94.911	93.897									
100%	Vmax	4757.9	94.978	93.117	4758	94.979	93.127									