

Reference Data:



Reference:

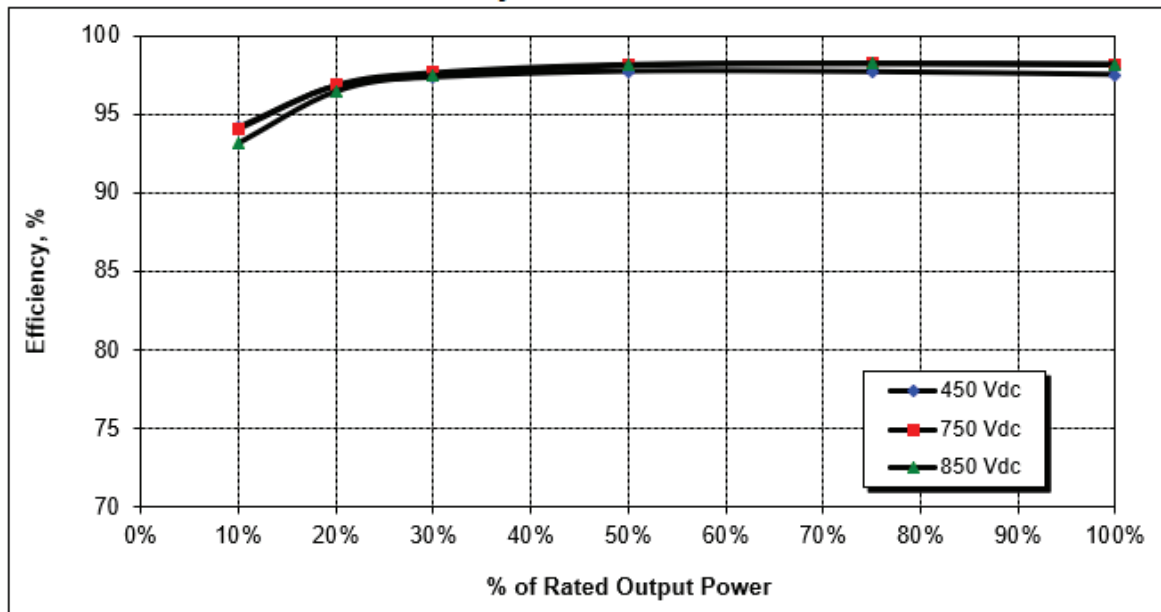
Manufacturer: **HiQ Solar, Inc.**
Name: **HiQ Solar, Inc.**
Model: **TSXL480-10K**
Number: **TSXL480-10K**

Rated Maximum Continuous Output Power: **9.975 kW** Night Tare Loss: **8.3 W**

Vmin: **450 Vdc** Vnom: **750 Vdc** Vmax: **850 Vdc**

Input Voltage (Vdc)		Power Level (%; kW)					Wtd	
		10%	20%	30%	50%	75%		100%
Vmin	450	94.12	96.78	97.34	97.73	97.70	97.52	97.46
Vnom	750	94.11	96.85	97.64	98.16	98.22	98.14	97.90
Vmax	850	93.19	96.46	97.46	98.10	98.24	98.20	97.82

CEC Efficiency = **97.5%**



Inverter Efficiency Reference Data :

Minimum of 5 samples required

Specified Output Power (% of rated)	Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)
10%	Vmin	977.60	94.16	449.60	94.24	94.24	449.60	94.21	94.05	449.60	94.05	94.05	449.60	94.08	94.08
20%	Vmin	2157.50	96.80	449.60	96.74	96.74	449.60	96.77	96.77	449.60	96.77	96.77	449.60	96.80	96.80
30%	Vmin	3214.30	97.32	449.50	97.36	97.36	449.60	97.35	97.35	449.50	97.33	97.33	449.50	97.36	97.36
50%	Vmin	5470.40	97.73	449.40	97.72	97.72	449.40	97.73	97.73	449.40	97.73	97.73	449.40	97.71	97.71
75%	Vmin	7975.60	97.70	448.80	97.70	97.70	448.80	97.70	97.69	448.70	97.69	97.69	448.70	97.70	97.70
100%	Vmin	9582.30	97.52	448.00	97.52	97.52	447.90	97.51	97.52	448.00	97.52	97.52	447.80	97.52	97.52
10%	Vnom	971.10	94.12	749.90	94.06	94.06	749.90	94.08	94.24	749.90	94.24	94.24	749.90	94.13	94.13
20%	Vnom	2151.10	96.88	749.90	96.83	96.83	749.90	96.84	96.81	749.90	96.81	96.81	749.90	96.86	96.86
30%	Vnom	3209.10	97.63	749.90	97.66	97.66	749.90	97.63	97.63	749.90	97.63	97.63	749.90	97.64	97.64
50%	Vnom	5467.10	98.16	749.90	98.16	98.16	749.90	98.16	98.16	749.90	98.16	98.16	749.90	98.16	98.16
75%	Vnom	7975.80	98.23	749.90	98.23	98.23	749.90	98.22	98.22	749.90	98.21	98.21	749.90	98.22	98.22
100%	Vnom	9572.20	98.15	749.80	98.13	98.13	749.80	98.14	98.14	749.80	98.14	98.14	749.80	98.14	98.14
10%	Vmax	986.40	93.16	849.90	93.16	93.16	849.90	93.17	93.17	849.90	93.17	93.17	849.90	93.29	93.29
20%	Vmax	2156.00	96.45	849.90	96.50	96.50	849.90	96.45	96.44	849.90	96.44	96.44	849.90	96.45	96.45
30%	Vmax	3210.90	97.46	849.90	97.44	97.44	849.90	97.46	97.46	849.90	97.46	97.46	849.90	97.45	97.45
50%	Vmax	5469.00	98.12	850.00	98.10	98.10	850.00	98.09	98.09	850.00	98.10	98.10	850.00	98.11	98.11
75%	Vmax	7974.60	98.23	850.00	98.25	98.25	850.00	98.24	98.24	850.00	98.24	98.24	850.00	98.23	98.23
100%	Vmax	9574.10	98.21	850.00	98.21	98.21	849.90	98.20	98.20	849.90	98.19	98.19	849.90	98.20	98.20

Specified Output Power (% of rated)	Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)	Input Voltage (Vdc)	Output Power (W)	Efficiency (%)
10%	Vmin	980.50	94.06	449.60	94.01	94.01	449.60	94.01	94.01	449.60	94.01	94.01	449.60	94.01	94.01
20%	Vmin	2158.60	96.78	449.60	96.78	96.78	449.60	96.78	96.78	449.60	96.78	96.78	449.60	96.78	96.78
30%	Vmin	3213.60	97.35	449.50	97.33	97.33	449.50	97.33	97.33	449.50	97.33	97.33	449.50	97.33	97.33
50%	Vmin	5469.20	97.74	449.40	97.74	97.74	449.40	97.73	97.73	449.40	97.73	97.73	449.40	97.73	97.73
75%	Vmin	7973.90	97.69	448.80	97.69	97.69	448.80	97.69	97.69	448.80	97.69	97.69	448.80	97.69	97.69
100%	Vmin	9579.30	97.52	447.80	97.52	97.52	447.90	97.51	97.51	447.90	97.51	97.51	447.80	97.51	97.51
10%	Vnom	978.10	94.04	749.90	94.10	94.10	749.90	94.10	94.10	749.90	94.10	94.10	749.90	94.10	94.10
20%	Vnom	2153.20	96.87	749.90	96.87	96.87	749.90	96.83	96.83	749.90	96.83	96.83	749.90	96.83	96.83
30%	Vnom	3208.20	97.65	749.90	97.65	97.65	749.90	97.67	97.67	749.90	97.67	97.67	749.90	97.67	97.67
50%	Vnom	5466.30	98.16	749.90	98.16	98.16	749.90	98.16	98.16	749.90	98.16	98.16	749.90	98.16	98.16
75%	Vnom	7974.30	98.21	749.90	98.21	98.21	749.90	98.22	98.22	749.90	98.22	98.22	749.90	98.22	98.22
100%	Vnom	9572.90	98.13	749.80	98.13	98.13	749.80	98.15	98.15	749.80	98.15	98.15	749.80	98.15	98.15
10%	Vmax	985.50	93.15	849.90	93.15	93.15	849.90	93.15	93.21	849.90	93.21	93.21	849.90	93.15	93.15
20%	Vmax	2157.10	96.45	849.90	96.45	96.45	849.90	96.48	96.48	849.90	96.48	96.48	849.90	96.45	96.45
30%	Vmax	3212.50	97.44	850.00	97.44	97.44	850.00	97.45	97.45	850.00	97.45	97.45	850.00	97.45	97.45
50%	Vmax	5467.40	98.00	850.00	98.00	98.00	850.00	98.10	98.10	850.00	98.10	98.10	850.00	98.10	98.10
75%	Vmax	7975.40	98.23	850.00	98.23	98.23	850.00	98.24	98.24	850.00	98.24	98.24	850.00	98.24	98.24
100%	Vmax	9576.70	98.20	849.90	98.20	98.20	849.90	98.20	98.20	849.90	98.20	98.20	849.90	98.20	98.20