Manufacturer: SUNGROW POWER SUPPLY CO., LTD.

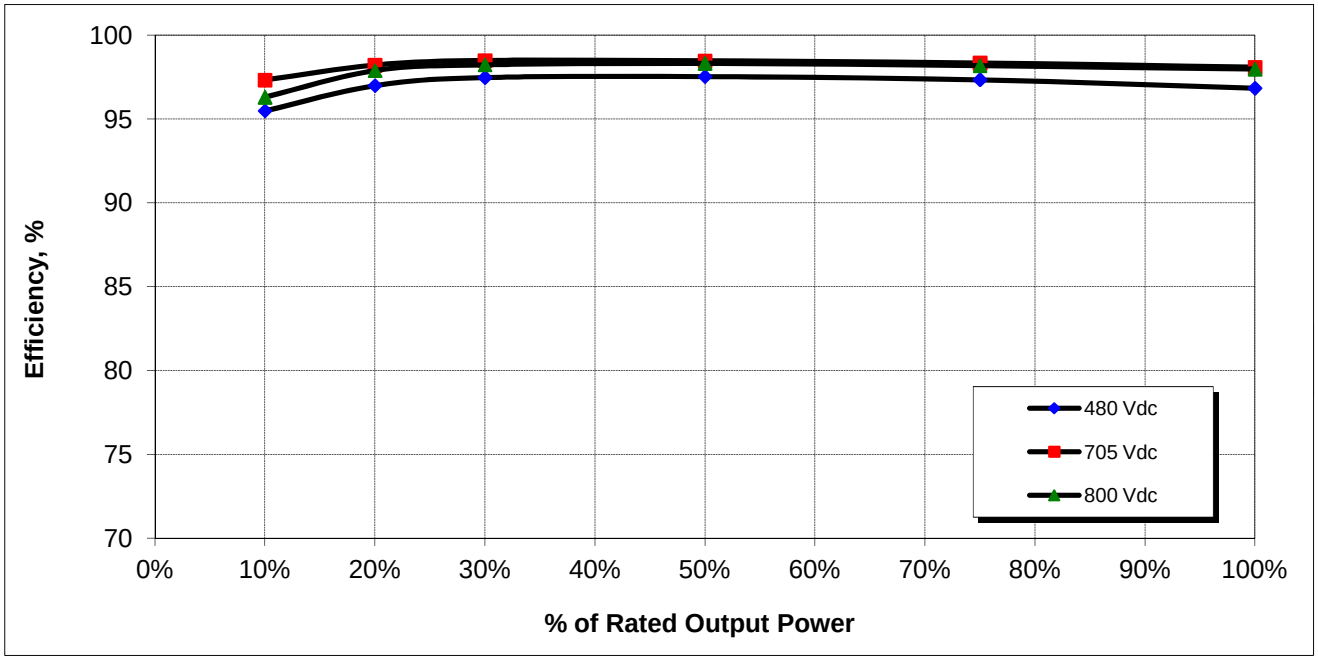
Model #: SG30KU

Rated Maximum Continuous Output Power: 30.00 kW Night Tare Loss: -1.52 W

Vmin: 480 Vdc Vnom: 705 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		3.00	6.00	9.00	15.00	22.50	30.00	Wtd
Vmin	480	95.5	97.0	97.5	97.5	97.3	96.8	97.3
Vnom	705	97.3	98.2	98.5	98.5	98.3	98.1	98.3
Vmax	800	96.3	97.9	98.2	98.3	98.2	98.0	98.1

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	2713.95	488.42	95.51	2718.78	485.65	95.48	2710.95	485.81	95.47	2725.53	487.25	95.49	2718.16	485.69	95.48
20%	Vmin	5947.21	488.26	97.00	5927.34	487.86	96.99	5932.82	487.90	96.99	5936.17	485.82	96.99	5935.58	487.99	97.00
30%	Vmin	9604.93	482.95	97.47	9609.56	482.38	97.45	9613.74	483.78	97.48	9619.23	482.45	97.48	9606.17	484.38	97.49
50%	Vmin	14959.27	486.60	97.55	14966.70	487.60	97.55	14951.43	484.24	97.53	14951.77	482.09	97.53	14948.00	484.74	97.53
75%	Vmin	21965.30	485.42	97.36	21959.97	483.91	97.35	21965.53	483.92	97.35	21960.77	483.39	97.34	21955.90	485.90	97.34
100%	Vmin	30668.80	485.75	96.85	30688.87	484.47	96.87	30687.60	486.06	96.85	30673.70	486.43	96.82	30660.10	489.11	96.82
10%	Vnom	2819.14	698.59	97.39	2762.19	702.89	97.57	2788.60	701.76	97.06	2843.04	702.89	97.49	2845.28	701.06	97.31
20%	Vnom	6098.03	694.14	98.02	6108.49	703.50	98.30	6098.59	697.10	98.03	6112.04	701.29	98.30	6137.28	701.58	98.31
30%	Vnom	9679.25	702.80	98.46	9704.59	700.44	98.52	9712.75	700.81	98.50	9697.73	700.39	98.48	9704.77	698.91	98.50
50%	Vnom	16196.57	702.00	98.49	16155.87	711.70	98.46	16166.67	710.60	98.41	16166.80	703.19	98.41	16199.93	706.96	98.49
75%	Vnom	22116.37	278.65	98.34	22108.57	278.65	98.32	22090.60	278.64	98.29	22123.17	278.64	98.31	22122.33	278.64	98.37
100%	Vnom	30996.80	704.97	98.06	30984.33	707.15	98.10	30967.17	708.92	98.09	31060.23	704.54	98.11	31000.57	704.54	98.09
10%	Vmax	2592.13	794.09	96.25	2543.46	793.62	96.32	2581.69	794.59	96.28	2629.70	792.61	96.34	2610.72	793.35	96.48
20%	Vmax	6116.96	792.71	97.89	6117.64	791.85	97.89	6128.23	790.69	97.90	6110.73	788.19	97.91	6121.29	790.67	97.89
30%	Vmax	9096.04	791.12	98.28	9124.50	790.01	98.31	9088.87	791.24	98.26	9080.37	791.10	98.19	9081.92	789.40	98.19
50%	Vmax	15305.97	790.37	98.32	15330.43	790.20	98.33	15264.77	790.66	98.32	15321.00	790.36	98.32	15294.50	790.51	98.32
75%	Vmax	22118.43	797.12	98.23	22120.33	793.62	98.24	22026.93	790.85	98.16	22105.87	795.23	98.21	22123.77	796.00	98.20
100%	Vmax	30982.43	790.52	98.00	30940.67	788.50	97.97	30974.50	794.54	97.94	30929.10	789.82	97.95	30967.67	792.14	97.98

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	2714.62	485.13	95.49	2720.88	485.65	95.49									
20%	Vmin	5934.40	486.14	96.99	5928.80	486.45	96.99									
30%	Vmin	9614.51	483.29	97.48	9622.20	485.46	97.47									
50%	Vmin	14953.03	484.41	97.53	14955.43	485.57	97.52									
75%	Vmin	21959.67	486.75	97.34	21970.67	484.78	97.32									
100%	Vmin	30662.97	489.00	96.82	30671.43	487.97	96.83									
10%	Vnom	2745.63	700.66	97.27	2803.05	700.17	97.14									
20%	Vnom	6132.94	697.09	98.32	6110.58	694.93	98.18									
30%	Vnom	9704.17	701.47	98.50	9672.61	704.64	98.40									
50%	Vnom	16193.93	706.77	98.49	16203.10	705.24	98.49									
75%	Vnom	22139.10	278.64	98.36	22121.43	278.66	98.36									
100%	Vnom	31025.17	704.12	98.06	30978.67	705.80	98.06									
10%	Vmax	2515.03	793.53	96.07	2610.72	790.91	96.35									
20%	Vmax	6110.29	795.30	97.87	6110.29	791.86	97.88									
30%	Vmax	9060.67	789.64	98.20	9061.25	789.76	98.20									
50%	Vmax	15284.43	790.47	98.32	15143.43	791.32	98.31									
75%	Vmax	22068.77	796.42	98.11	22079.57	798.34	98.16									
100%	Vmax	30936.20	785.67	98.01	30961.07	790.82	97.99									