Manufacturer: Concept by US

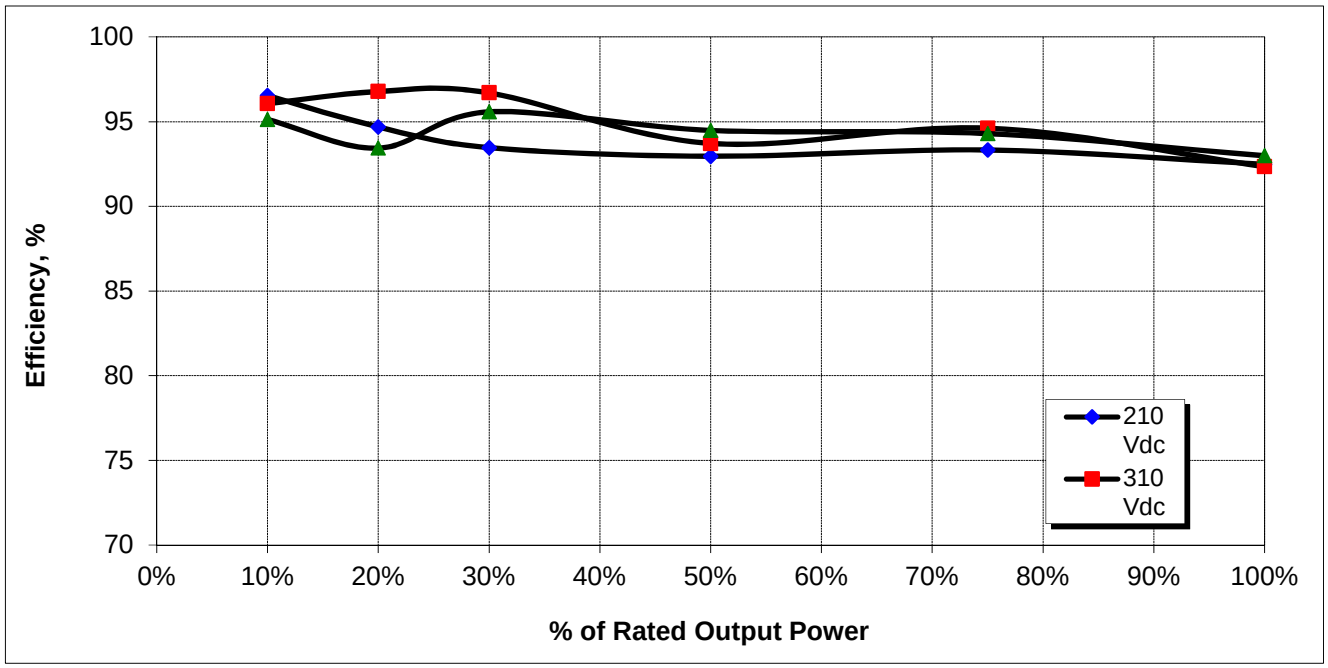
Model #: Power Station PS247-05-180

Rated Maximum Continuous Output Power: 5.02 kW Night Tare Loss: 0.00 W

Vmin: 210 Vdc Vnom: 310 Vdc Vmax: 420 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.51	2.51	3.77	5.02	Wtd
Vmin	210	96.5	94.7	93.5	93.0	93.3	92.5	93.4
Vnom	310	96.1	96.8	96.7	93.7	94.6	92.3	94.7
Vmax	420	95.1	93.4	95.6	94.5	94.3	93.0	94.4

CEC Efficiency = 94.0%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	555.14	207.88	95.385	565.2	207.86	98.938	559.1	207.88	97.860	554.2	207.87	95.263	554.2	207.87	95.263
20%	Vmin	970.26	208.33	94.299	977.5	208.31	96.011	978.2	208.32	94.112	972.2	208.32	94.508	972.2	208.32	94.508
30%	Vmin	1464.9	208.81	93.785	1467	208.82	93.281	1465	208.8	93.173	1461	208.78	93.547	1461	208.78	93.547
50%	Vmin	2408.3	207.95	92.931	2416	210.87	93.945	2416	210.91	92.838	2417	209.33	92.534	2417	209.33	92.534
75%	Vmin	3760.4	210.63	92.891	3810	210.65	93.861	3815	210.64	93.992	3763	210.64	92.942	3763	210.64	92.942
100%	Vmin	4762.7	210.42	92.510	4781	210.43	92.471	4773	210.43	92.509	4771	210.45	92.468	4771	210.45	92.468
10%	Vnom	557.61	306.89	97.875	555.8	306.88	97.509	556.5	306.9	99.501	548.4	306.88	92.717	548.4	306.88	92.717
20%	Vnom	974.77	307.23	96.912	976.8	307.23	97.112	975.9	307.23	98.097	974.8	307.24	95.894	974.8	307.24	95.894
30%	Vnom	1540	307.56	94.305	1584	307.62	96.976	1593	307.63	98.172	1585	307.68	97.029	1585	307.68	97.029
50%	Vnom	2412.4	314.72	93.591	2412	314.72	93.648	2406	314.74	93.685	2417	314.73	93.818	2417	314.73	93.818
75%	Vnom	3878.7	309.22	94.366	3898	309.05	94.635	3903	309	94.537	3930	306.24	94.771	3930	306.24	94.771
100%	Vnom	4767.3	310.72	92.188	4760	310.74	92.226	4779	310.75	92.412	4772	310.76	92.458	4772	310.76	92.458
10%	Vmax	562.67	415.61	94.979	554	415.61	93.509	551.5	415.61	93.026	554.2	415.6	97.063	554.2	415.6	97.063
20%	Vmax	974.52	415.96	93.545	976	415.96	93.688	973.1	415.95	93.408	971.7	415.94	93.275	971.7	415.94	93.275
30%	Vmax	1517.3	416.23	92.850	1566	416.44	97.047	1528	416.18	94.779	1559	416.43	96.612	1559	416.43	96.612
50%	Vmax	2416.9	425.01	94.477	2419	425	94.578	2424	425	94.378	2418	425.01	94.508	2418	425.01	94.508
75%	Vmax	3982.1	418.03	95.078	3985	418.4	94.823	3920	417.83	93.410	3944	417.32	94.084	3944	417.32	94.084
100%	Vmax	4781.2	420.18	92.970	4770	420.18	93.145	4778	420.2	93.095	4776	420.19	92.852	4776	420.19	92.852

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															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															