Manufacturer: SolarBridge Technologies

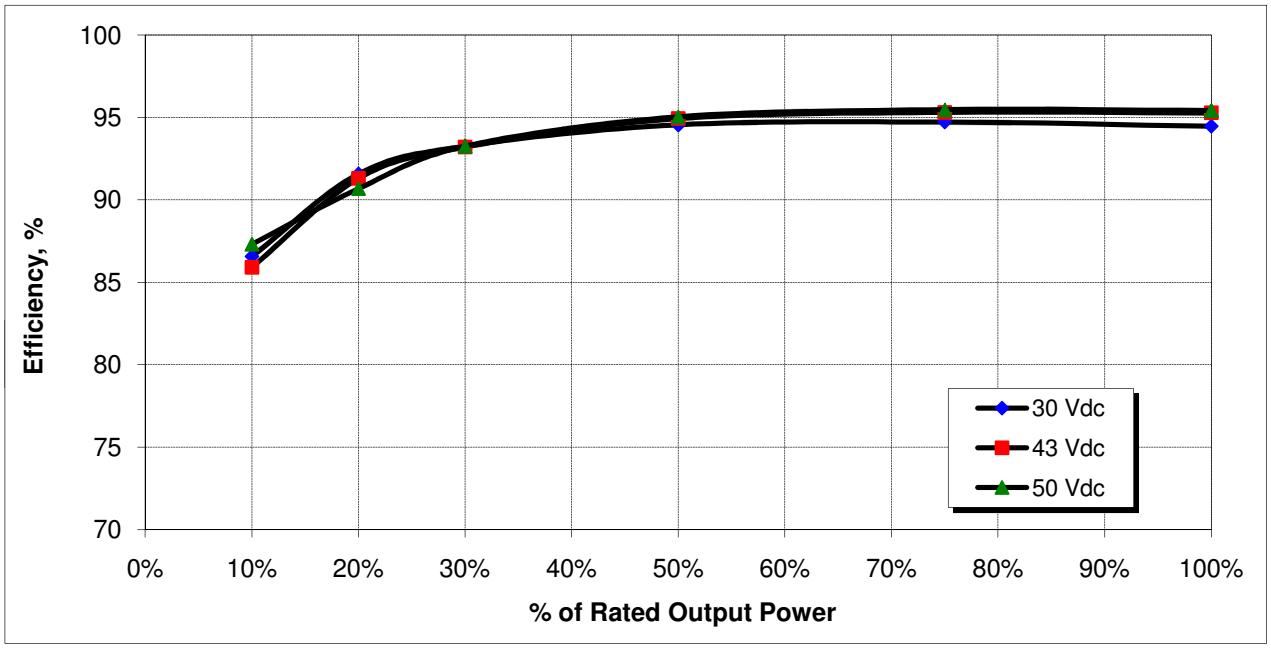
Model #: P235HV-240 Serial #: 17021049000104

Rated Maximum Continuous Output Power @25°C: 0.225 kW Night Tare Loss: -0.03 W
Rated Maximum Continuous Output Power @40°C: 0.225 kW Night Tare Loss: -0.03 W

Vmin: 30 Vdc Vnom: 43 Vdc Vmax: 50 Vdc

		Power Level (%; kW)							
		10%	20%	30%	50%	75%	100%		
Input Voltage (Vdc)		0.02	0.05	0.07	0.11	0.17	0.23	Wtd	
Vmin	30	86.6	91.6	93.3	94.6	94.7	94.5	94.0	
Vnom	43	85.9	91.3	93.2	94.9	95.3	95.3	94.4	94.32
Vmax	50	87.3	90.7	93.3	95.0	95.5	95.4	94.5	

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	21.067	30	86.567	21.86	29.997	88.003	21.46	29.99	86.542	20.97	29.99	84.636	21.53	29.993	86.877
20%	Vmin	48.957	29.993	91.582	48.95	29.993	91.558	48.95	29.997	91.563	48.95	29.993	91.581	48.95	29.993	91.581
30%	Vmin	72.78	29.99	93.228	72.77	29.99	93.251	72.81	29.99	93.227	72.82	29.99	93.315	72.8	29.99	93.218
50%	Vmin	122.9	30	94.536	122.9	30	94.541	123	30	94.579	122.9	30	94.567	122.9	30	94.559
75%	Vmin	157.69	29.983	94.749	157.7	29.983	94.758	157.6	29.987	94.722	157.6	29.98	94.718	157.6	29.98	94.712
100%	Vmin	213.9	29.99	94.477	213.9	29.99	94.468	213.9	29.99	94.460	213.9	29.983	94.464	213.9	29.983	94.464
10%	Vnom	21.79	43.01	85.900	21.77	43.01	85.810	21.79	43.01	85.821	21.86	43.01	86.050	21.8	43.01	85.906
20%	Vnom	48.807	43	91.541	48.78	43	91.486	48.65	43	91.236	48.63	43	91.210	48.64	43	91.223
30%	Vnom	72.493	43	93.187	72.48	43	93.174	72.46	43	93.153	72.51	43	93.221	72.53	43	93.227
50%	Vnom	123.67	42.99	94.958	123.7	42.987	94.941	123.7	42.987	94.922	123.7	42.99	94.909	123.6	42.987	94.935
75%	Vnom	179.46	43	95.304	179.4	43	95.293	179.5	43	95.336	179.5	43	95.307	179.5	43	95.305
100%	Vnom	214.19	42.997	95.282	214.2	42.993	95.262	214.2	42.99	95.267	214.2	42.99	95.274	214.2	42.99	95.282
10%	Vmax	22.443	50	87.408	22.45	50.003	87.386	22.42	50.003	87.307	22.4	50.01	87.203	22.4	50.003	87.226
20%	Vmax	48.907	50	90.719	48.9	50	90.684	48.88	50	90.624	48.91	50	90.726	48.85	49.997	90.642
30%	Vmax	72.53	50.01	93.111	72.57	50.007	93.174	72.74	50.007	93.400	72.78	50.007	93.431	72.72	50.007	93.358
50%	Vmax	123.41	49.993	95.026	123.4	49.997	95.058	123.4	49.993	95.039	123.4	49.987	95.024	123.4	49.983	95.032
75%	Vmax	179.38	49.99	95.498	179.4	50.003	95.494	179.4	50.01	95.451	179.4	50.01	95.462	179.3	50.01	95.441
100%	Vmax	214.52	50	95.397	214.6	50	95.402	214.5	50	95.414	214.5	50	95.414	214.5	50	95.424

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	21.863	30	88.492	21.07	30	84.867									
20%	Vmin	48.97	29.99	91.613	48.93	29.99	91.561									
30%	Vmin	72.827	29.99	93.248	72.81	29.99	93.311									
50%	Vmin	122.93	30	94.564	122.9	30	94.559									
75%	Vmin	157.59	29.99	94.704	157.6	29.99	94.696									
100%	Vmin	213.87	29.983	94.467	213.9	29.98	94.457									
10%	Vnom	21.793	43.01	85.902	21.8	43.01	85.951									
20%	Vnom	48.627	43	91.204	48.63	43	91.210									
30%	Vnom	72.53	43	93.226	72.54	43	93.235									
50%	Vnom	123.68	42.99	94.946	123.7	42.99	94.950									
75%	Vnom	179.42	43	95.320	179.5	43	95.304									
100%	Vnom	214.18	42.99	95.277	214.2	42.99	95.274									
10%	Vmax	22.4	50	87.273	22.42	50	87.349									
20%	Vmax	48.89	50	90.677	48.89	50.003	90.665									
30%	Vmax	72.617	50.01	93.210	72.51	50.003	93.073									
50%	Vmax	123.42	49.99	95.014	123.4	49.99	95.017									
75%	Vmax	179.33	50.01	95.437	179.4	50.01	95.464									
100%	Vmax	214.51	50	95.421	214.5	49.99	95.427									