Manufacturer: Renesola Zhejiang System Integration Ltd

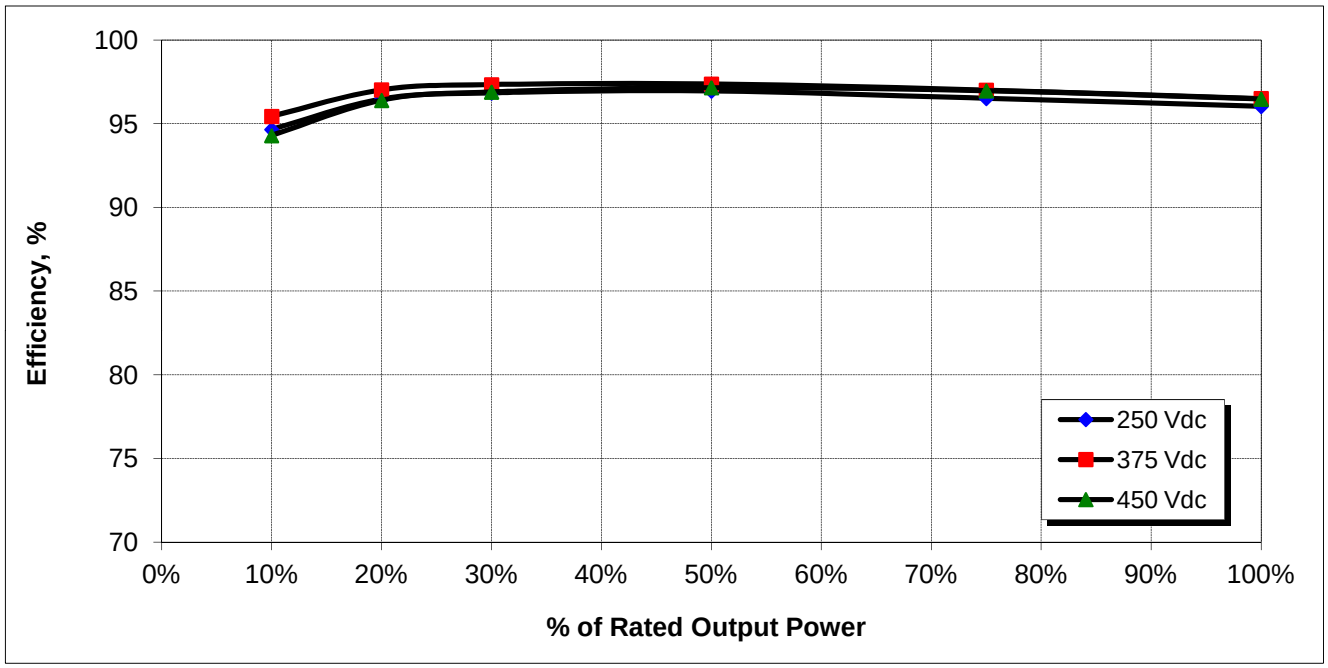
Model #: Replus 5000MTLB-US (208 Vac)

Rated Maximum Continuous Output Power: 4.60 kW Night Tare Loss: 0.26 W

Vmin: 250 Vdc Vnom: 375 Vdc Vmax: 450 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.46	0.92	1.38	2.30	3.45	4.60	Wtd
Vmin	250	94.7	96.5	96.8	96.9	96.5	96.0	96.5
Vnom	375	95.4	97.0	97.3	97.4	97.0	96.5	97.0
Vmax	450	94.3	96.4	96.9	97.1	97.0	96.5	96.8

CEC Efficiency = 97.0%



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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.4439	250.33	94.726	0.444	250.65	94.719	0.444	250.49	94.662	0.443	250.67	94.678	0.443	250.43	94.477
20%	Vmin	0.9536	250.42	96.480	0.954	250.28	96.484	0.953	250.43	96.483	0.952	250.36	96.370	0.953	250.39	96.481
30%	Vmin	1.355	250.62	96.828	1.355	250.47	96.832	1.354	250.5	96.830	1.356	250.49	96.833	1.355	250.44	96.829
50%	Vmin	2.4099	250.31	96.946	2.409	250.51	96.944	2.409	250.39	96.949	2.41	250.57	96.948	2.407	250.71	96.948
75%	Vmin	3.5125	250.45	96.502	3.508	250.53	96.500	3.509	250.42	96.504	3.51	250.48	96.506	3.511	250.58	96.505
100%	Vmin	4.6114	250.45	96.038	4.615	250.39	96.033	4.607	250.56	96.035	4.61	250.56	96.029	4.614	250.37	96.024
10%	Vnom	0.4406	375.47	95.429	0.442	375.31	95.448	0.442	375.67	95.443	0.443	375.35	95.435	0.442	375.43	95.438
20%	Vnom	0.9529	375.47	97.002	0.953	375.72	97.014	0.952	375.45	97.016	0.952	375.41	97.018	0.953	375.59	97.023
30%	Vnom	1.3545	375.53	97.329	1.353	375.38	97.329	1.354	375.37	97.332	1.354	375.59	97.332	1.353	375.47	97.330
50%	Vnom	2.4091	375.58	97.369	2.409	375.43	97.372	2.407	375.16	97.372	2.41	375.66	97.372	2.409	375.46	97.368
75%	Vnom	3.5086	375.37	97.000	3.509	375.3	97.000	3.507	375.48	96.998	3.507	375.44	96.999	3.507	375.47	96.998
100%	Vnom	4.6119	375.42	96.496	4.609	375.47	96.499	4.611	375.43	96.497	4.611	375.31	96.496	4.607	375.43	96.497
10%	Vmax	0.4424	450.7	94.288	0.442	450.56	94.295	0.443	450.54	94.301	0.441	450.53	94.295	0.442	450.36	94.276
20%	Vmax	0.9516	450.63	96.398	0.953	450.48	96.392	0.952	450.58	96.397	0.952	450.51	96.394	0.953	450.27	96.393
30%	Vmax	1.3527	450.36	96.883	1.354	450.51	96.889	1.353	450.31	96.893	1.354	450.46	96.891	1.352	450.41	96.890
50%	Vmax	2.4085	450.37	97.146	2.408	450.34	97.148	2.41	450.74	97.149	2.406	450.72	97.121	2.41	450.58	97.153
75%	Vmax	3.5054	450.6	96.905	3.503	450.48	96.911	3.505	450.47	96.909	3.515	450.5	97.187	3.503	450.42	96.911
100%	Vmax	4.6068	450.5	96.482	4.606	450.53	96.474	4.606	450.36	96.471	4.604	450.41	96.467	4.608	450.51	96.464

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(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															