Manufacturer: Renesola Zhejiang System Integration Ltd

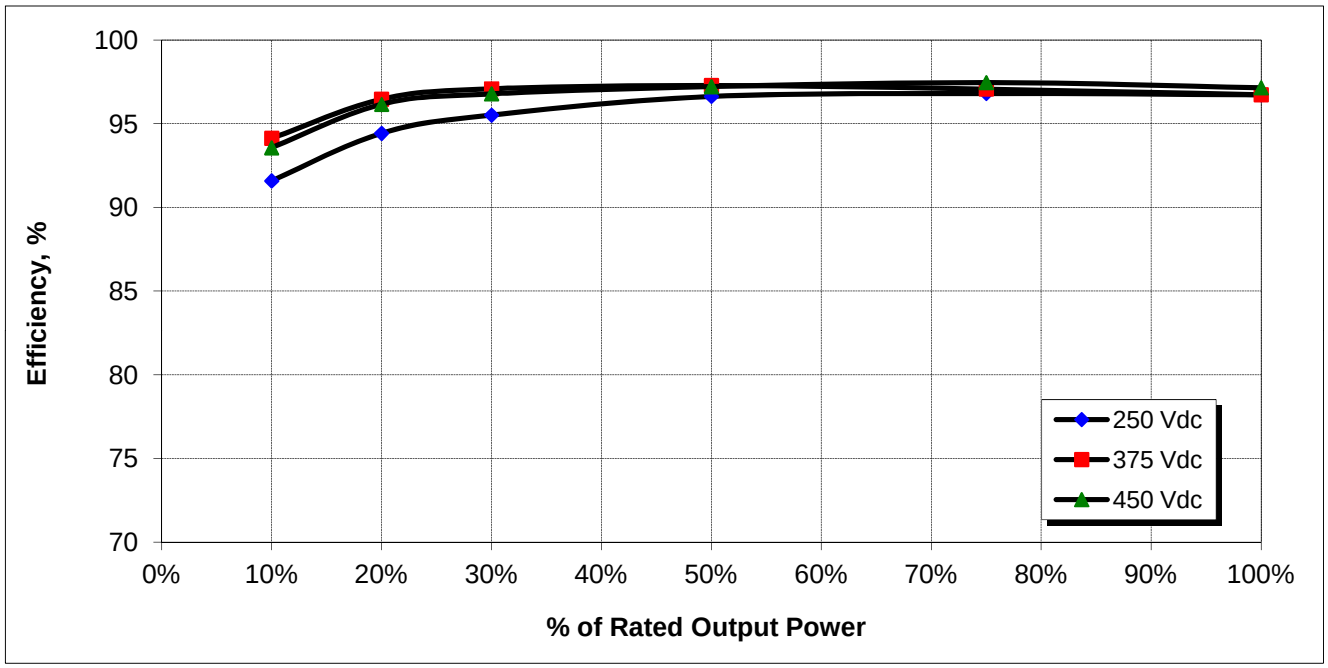
Model #: Replus 4200MTLB-US (208 Vac)

Rated Maximum Continuous Output Power: 4.20 kW Night Tare Loss: 0.25 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.42	0.84	1.26	2.10	3.15	4.20	Wtd
Vmin	250	91.6	94.4	95.5	96.6	96.8	96.7	96.3
Vnom	375	94.1	96.5	97.1	97.3	97.1	96.7	97.0
Vmax	450	93.6	96.2	96.8	97.2	97.5	97.1	97.1

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	0.393	250.69	91.631	0.394	250.78	91.862	0.393	250.44	91.359	0.393	250.81	91.626	0.393	250.64	91.447
20%	Vmin	0.8246	250.67	94.415	0.825	250.39	94.587	0.825	250.52	94.392	0.825	250.41	94.484	0.824	250.42	94.266
30%	Vmin	1.2858	250.38	95.517	1.285	250.36	95.518	1.284	250.49	95.523	1.285	250.71	95.519	1.285	250.45	95.514
50%	Vmin	2.2198	250.54	96.628	2.219	250.53	96.632	2.218	250.49	96.627	2.22	250.38	96.632	2.22	250.6	96.630
75%	Vmin	3.2331	250.54	96.765	3.229	250.43	96.820	3.236	250.67	96.822	3.237	250.42	96.823	3.231	250.67	96.822
100%	Vmin	4.2458	250.68	96.718	4.249	250.47	96.742	4.247	250.62	96.733	4.247	250.48	96.718	4.246	250.63	96.738
10%	Vnom	0.3928	375.22	94.191	0.393	375.48	94.046	0.393	375.39	94.122	0.393	375.47	94.257	0.393	375.56	94.017
20%	Vnom	0.8245	375.38	96.403	0.827	375.55	96.695	0.825	375.54	96.407	0.824	375.46	96.401	0.824	375.43	96.396
30%	Vnom	1.2844	375.47	97.092	1.285	375.45	97.085	1.285	375.52	97.088	1.285	375.5	97.084	1.287	375.47	97.084
50%	Vnom	2.2087	375.67	97.271	2.205	375.43	97.312	2.205	375.6	97.269	2.209	375.47	97.277	2.207	375.38	97.270
75%	Vnom	3.2115	375.66	97.071	3.211	375.57	97.072	3.211	375.43	97.073	3.21	375.47	97.071	3.209	375.64	97.069
100%	Vnom	4.2082	375.48	96.740	4.209	375.56	96.736	4.208	375.6	96.738	4.208	375.67	96.696	4.212	375.57	96.726
10%	Vmax	0.3957	450.49	93.502	0.396	450.43	93.685	0.396	450.46	93.487	0.397	450.59	93.575	0.396	450.38	93.584
20%	Vmax	0.8272	450.57	96.167	0.827	450.44	96.135	0.829	450.37	96.160	0.828	450.5	96.185	0.828	450.63	96.150
30%	Vmax	1.2863	450.57	96.832	1.286	450.33	96.730	1.285	450.64	96.688	1.289	450.54	96.898	1.286	450.43	96.765
50%	Vmax	2.1949	450.57	96.673	2.211	450.42	97.338	2.211	450.48	97.367	2.214	450.44	97.365	2.21	450.31	97.342
75%	Vmax	3.2282	450.18	97.443	3.224	450.6	97.435	3.227	450.12	97.468	3.226	450.7	97.467	3.228	450.5	97.502
100%	Vmax	4.2234	450.69	97.125	4.229	450.52	97.165	4.229	450.42	97.115	4.228	450.62	97.140	4.235	450.6	97.198

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															