Manufacturer: SMA Technologie AG

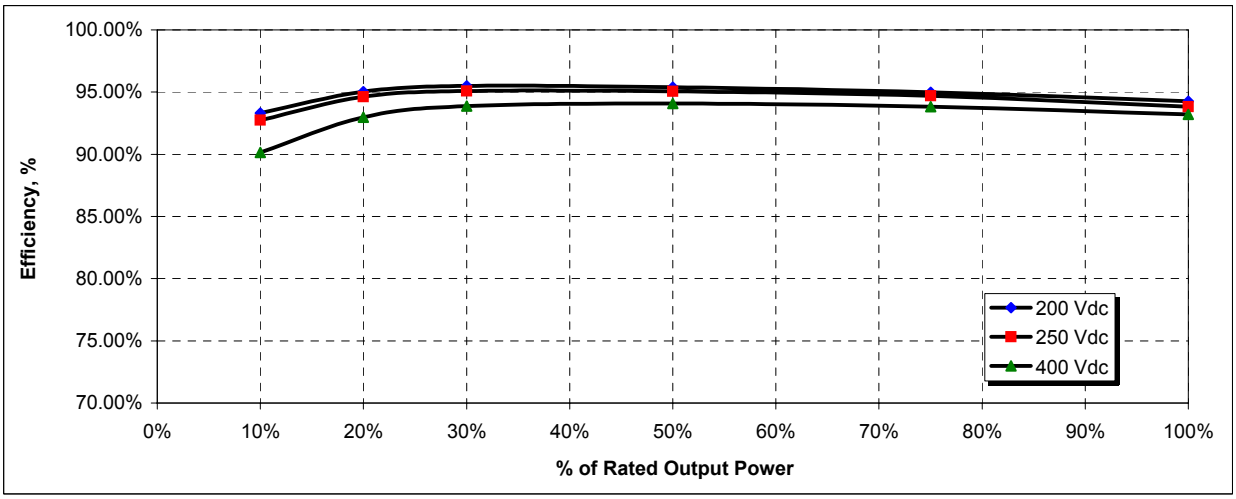
Model #: SB3800U-240

Output Power 3800 kW Night Tare Loss: 0.161 W

Vmin: 200 Vdc Vnom: 250 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		380.00	760.00	1140.00	1900.00	2850.00	3800.00	Wtd
Vmin	200	93.32%	95.02%	95.50%	95.39%	94.98%	94.27%	95.03%
Vnom	250	92.75%	94.63%	95.08%	95.07%	94.69%	93.81%	94.69%
Vmax	400	90.15%	92.98%	93.89%	94.08%	93.82%	93.21%	93.66%

CEC Efficiency = 94.5%



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	444	213	93.34%	443	213	93.29%	444	213	93.33%	444	213	93.33%	444	213	93.32%
20%	Vmin	833	213	95.05%	834	213	95.00%	833	213	95.02%	832	213	95.05%	832	213	95.01%
30%	Vmin	1,236	213	95.50%	1,236	213	95.54%	1,236	213	95.49%	1,236	213	95.49%	1,236	213	95.46%
50%	Vmin	1,728	213	95.34%	1,728	212	95.42%	1,728	212	95.38%	1,728	212	95.39%	1,728	213	95.41%
75%	Vmin	2,665	212	94.98%	2,666	212	95.01%	2,667	212	94.98%	2,667	212	94.98%	2,666	212	94.98%
100%	Vmin	3,625	212	94.23%	3,628	212	94.28%	3,629	212	94.31%	3,626	212	94.23%	3,624	212	94.28%
10%	Vnom	455	252	92.79%	455	252	92.76%	454	252	92.73%	454	252	92.73%	455	252	92.74%
20%	Vnom	822	252	94.58%	823	252	94.64%	822	252	94.61%	822	252	94.61%	824	252	94.63%
30%	Vnom	1,228	252	94.95%	1,229	252	95.06%	1,227	252	95.09%	1,226	252	95.14%	1,228	252	95.16%
50%	Vnom	1,738	251	95.03%	1,738	251	95.14%	1,736	251	95.07%	1,736	251	95.13%	1,736	251	94.99%
75%	Vnom	2,691	251	94.65%	2,691	251	94.69%	2,688	251	94.68%	2,691	251	94.69%	2,690	251	94.75%
100%	Vnom	3,640	251	93.81%	3,640	251	93.81%	3,640	251	93.81%	3,640	251	93.81%	3,640	251	93.81%
10%	Vmax	432	398	90.08%	433	398	90.10%	440	398	90.18%	440	398	90.21%	439	398	90.18%
20%	Vmax	815	398	93.00%	815	398	93.00%	815	398	93.03%	815	398	92.94%	816	398	92.95%
30%	Vmax	1,231	398	93.84%	1,232	398	93.83%	1,231	398	93.94%	1,231	398	93.91%	1,234	398	93.92%
50%	Vmax	1,718	398	94.04%	1,717	398	94.08%	1,717	398	94.08%	1,714	398	94.07%	1,717	398	94.09%
75%	Vmax	2,662	397	93.86%	2,664	397	93.80%	2,664	397	93.80%	2,663	397	93.87%	2,662	397	93.77%
100%	Vmax	3,615	397	93.31%	3,616	397	93.24%	3,618	397	93.20%	3,616	397	93.15%	3,614	397	93.17%