

Mini-Inverter Derating Chart Per Power Factor (Canada)

Date: January 2017

Rated Capacity & Voltage	Power Factor	Recommended Rated Load	
		Power / Watts	Best Practice*
1440W / 120V	1.00	1440W	1152W
	0.98	1368W	1152W
	0.96	1296W	1152W
	0.94	1231W	1152W
	0.92	1166W	1152W
	0.90	1116W	1116W
	0.88	1087W	1087W
	0.86	1068W	1068W
	0.84	1063W	1063W
	0.82	1051W	1051W
	0.80	1023W	1023W
0.70	744W	744W	
1440W / 347V	1.00	1440W	1152W
	0.98	1274W	1152W
	0.96	1123W	1123W
	0.94	936W	936W
	0.92	821W	821W
	0.90	720W	720W
	0.88	662W	662W
	0.86	642W	642W
	0.84	641W	641W
	0.82	641W	641W
	0.80	630W	630W
0.70	405W	405W	
1000W / 120V	1.00	1000W	800W
	0.98	950W	800W
	0.96	895W	800W
	0.94	845W	800W
	0.92	800W	800W
	0.90	760W	760W
	0.88	728W	728W
	0.86	705W	705W
	0.84	686W	686W
	0.82	665W	665W
	0.80	646W	646W
0.70	523W	523W	
1000W / 347V	1.00	1000W	800W
	0.98	922W	800W
	0.96	840W	800W
	0.94	760W	760W
	0.92	690W	690W
	0.90	630W	630W
	0.88	590W	590W
	0.86	562W	562W
	0.84	544W	544W
	0.82	524W	524W
	0.80	495W	495W
0.70	270W	270W	

Rated Capacity & Voltage	Power Factor	Recommended Rated Load	
		Power / Watts	Best Practice*
600W / 120V	1.00	600W	480W
	0.98	579W	480W
	0.96	558W	480W
	0.94	540W	480W
	0.92	522W	480W
	0.90	504W	480W
	0.88	486W	480W
	0.86	471W	471W
	0.84	456W	456W
	0.82	441W	441W
	0.80	428W	428W
0.70	356W	356W	
600W / 347V	1.00	600W	480W
	0.98	564W	480W
	0.96	526W	480W
	0.94	486W	480W
	0.92	453W	453W
	0.90	423W	423W
	0.88	403W	403W
	0.86	390W	390W
	0.84	378W	378W
	0.82	366W	366W
	0.80	351W	351W
0.70	225W	225W	
300W / 120V	1.00	300W	240W
	0.98	291W	240W
	0.96	282W	240W
	0.94	273W	240W
	0.92	264W	240W
	0.90	257W	240W
	0.88	250W	240W
	0.86	244W	240W
	0.84	238W	238W
	0.82	233W	233W
	0.80	228W	228W
0.70	200W	200W	

(*) Best Practice suggest not to load the unit above 80% of its capacity, to take into account aging batteries. Power Factor has no impact on batteries. Therefore derating the unit because of lower Power Factor do not require additional derating for aging batteries