

## Mini-Inverter derating chart per power factor (US)

Date: January 2017

Rated capacity & voltage	Power factor	Recommended rated load	
		Power / Watts	Best practice <sup>1</sup>
720W / 277V	1.00	720W	576W
	0.98	720W	576W
	0.96	720W	576W
	0.94	720W	576W
	0.92	720W	576W
	0.90	720W	576W
	0.88		576W
	0.86		576W
	0.84		576W
	0.82		576W
	0.80	665W	576W
	0.75		
	0.70	532W	532W
720W / 120V	1.00	720W	576W
	0.98	720W	576W
	0.96	720W	576W
	0.94	720W	576W
	0.92	720W	576W
	0.90	720W	576W
	0.88	720W	576W
	0.86	720W	576W
	0.84	720W	576W
	0.82	720W	576W
	0.80	720W	576W
	0.75		
	0.70	523W	523W
400W / 277V	1.00	400W	320W
	0.98	400W	320W
	0.96	400W	320W
	0.94	400W	320W
	0.92	400W	320W
	0.90	400W	320W
	0.88		
	0.86		
	0.84		
	0.82		
	0.80	285W	285W
	0.75		
	0.70	190W	190W
400W / 120V	1.00	400W	320W
	0.98	400W	320W
	0.96	400W	320W
	0.94	400W	320W
	0.92	400W	320W
	0.90	400W	320W
	0.88	400W	320W
	0.86	400W	320W
	0.84	400W	320W
	0.82	400W	320W
	0.80	400W	320W
	0.75		320W
	0.70	361W	320W

Rated capacity & voltage	Power factor	Recommended rated load	
		Power / Watts	Best practice <sup>1</sup>
250W / 277V	1.00	250W	200W
	0.98	250W	200W
	0.96	250W	200W
	0.94	250W	200W
	0.92	250W	200W
	0.90	250W	200W
	0.88		200W
	0.86		200W
	0.84		200W
	0.82		200W
	0.80	228W	200W
	0.75		
	0.70	124W	124W
250W / 120V	1.00	250W	200W
	0.98	250W	200W
	0.96	250W	200W
	0.94	250W	200W
	0.92	250W	200W
	0.90	250W	200W
	0.88		200W
	0.86		200W
	0.84		200W
	0.82		200W
	0.80	228W	200W
	0.75		
	0.70	200W	200W
125W / 277V	1.00	125W	100W
	0.98	125W	100W
	0.96	125W	100W
	0.94	125W	100W
	0.92	125W	100W
	0.90	125W	100W
	0.88		
	0.86		
	0.84		
	0.82		
	0.80	67W	67W
	0.75		
	0.70	51W	51W
125W / 120V	1.00	125W	100W
	0.98	125W	100W
	0.96	125W	100W
	0.94	125W	100W
	0.92	125W	100W
	0.90	125W	100W
	0.88		
	0.86		
	0.84		
	0.82		
	0.80	68W	68W
	0.75		
	0.70	50W	50W

<sup>1</sup>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.