

Potenco OLPC Generator

Specification Sheet



Specification	Value
Dimensions:	2" tall x 3" diameter (cylindrical)
Weight:	8oz
Max Output:	20W continuous 50W instantaneous For other applications 50W continuous is possible
Ruggedization:	Waterproof, Dust proof, Drop proof Generator/Electronics are contained in a separate hermetically sealed chamber. Cord is easily user-serviceable if it gets damaged in the field.
Lifetime Testing:	<i>Overall System:</i> Testing in Progress <i>Cord:</i> >1M Cycles <i>Fairlead:</i> >1M Cycles <i>Spring:</i> Testing in Progress <i>Motor:</i> Testing in Progress <i>Electronics:</i> Testing in Progress
User Interface:	LED feedback of power input (similar to an equalizer bar) For other applications more advanced feedback is possible.
Load Adjustment:	Smart adaptive loading. Similar to biking uphill, the device electrically changes gears automatically and finds the optimum loading point for each user.
Drive:	Direct Drive, no gears
Operation:	Device can be operated in numerous modes, for example: <ul style="list-style-type: none"> • Hold device in one hand, pull with other hand • Attach device to a fixed object, pull with entire body • Attach device to belt, pull with feet while walking
Bio-Efficiency:	Testing in Progress
Time Before Fatigue:	For a typical adult: (preliminary data) <ul style="list-style-type: none"> • 20W Output – 5-10 minutes • 10W Output -- >10 minutes
Noise:	59 dB at 1 foot <50 dB at 5 feet
EMI:	Testing in Progress
Commercial Application:	Large commercial markets in developed and developing countries: <ul style="list-style-type: none"> • Emergency Power • Camping / Outdoors • Device charging while traveling • Rural lighting • Water purification
Development Status:	Initial manufacturing runs of 5-25 units. Ramping up to full-scale production by mid July.