

Sankey

<u>In</u>	<u>#</u>	<u>Units</u>	<u>%</u>
Solar rays	800	W/m ²	
per cell	0.002563	m ²	
x 15 cells	0.038438	m ²	
Total in:	30.75	Watt	100

<u>Level 1</u>	<u>#</u>	<u>Units</u>	<u>%</u>
Total in:	30.75	Watt	
Electric:	6.35	Watt	20.7
Waste heat:	24.40	Watt	79.3

rolling res

Crr	0.01
N	9.81 N
Rolling re	0.098 N

motor

speed	4.115 m/s
gear ratio	8.94
wheel radius	0.2513 m
w rpm @ top	982.41
m rpm @ top	8782.8

Fwheel	0.610
Rolling re	0.098
Drag	0.234

Level 2	#	Units	%
Total in:	6.35	Watt	
Motor eff 70%	4.45	Watt	70
Losses (heat-fr)	1.91	Watt	30

Rolling res
Aerodynamics
Other

aero
speed 4.115 m/s
frontal area 0.046 m²
Cw 0.6
Drag: 0.234 N