



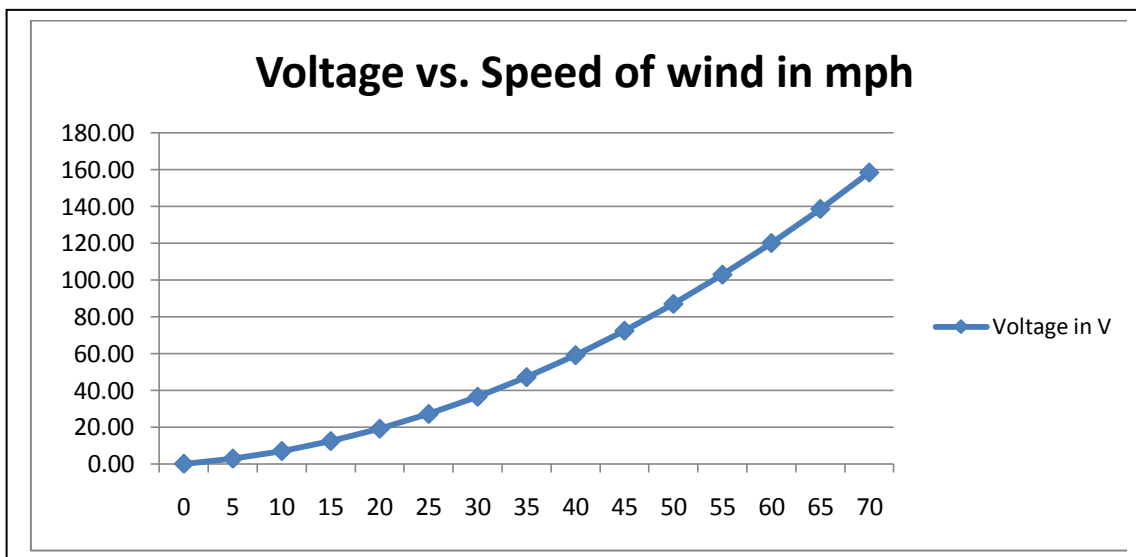
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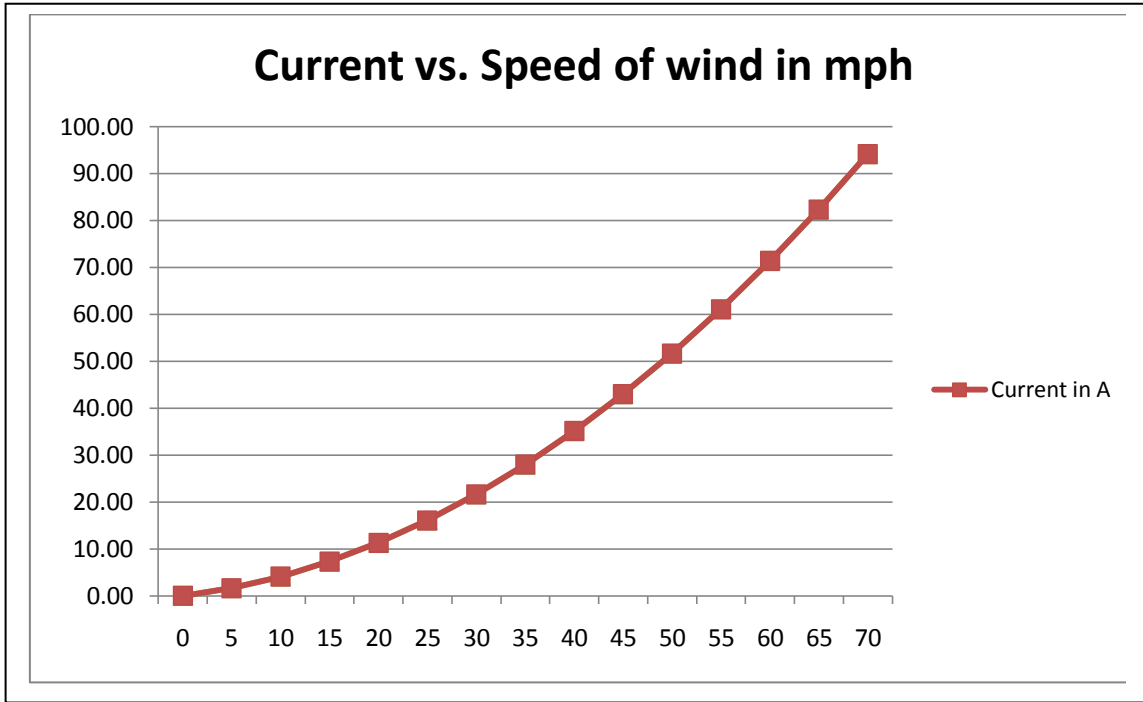
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## POLES-PLACED WIND ELECTRIC GENERATOR (CYCLOPES C-56)

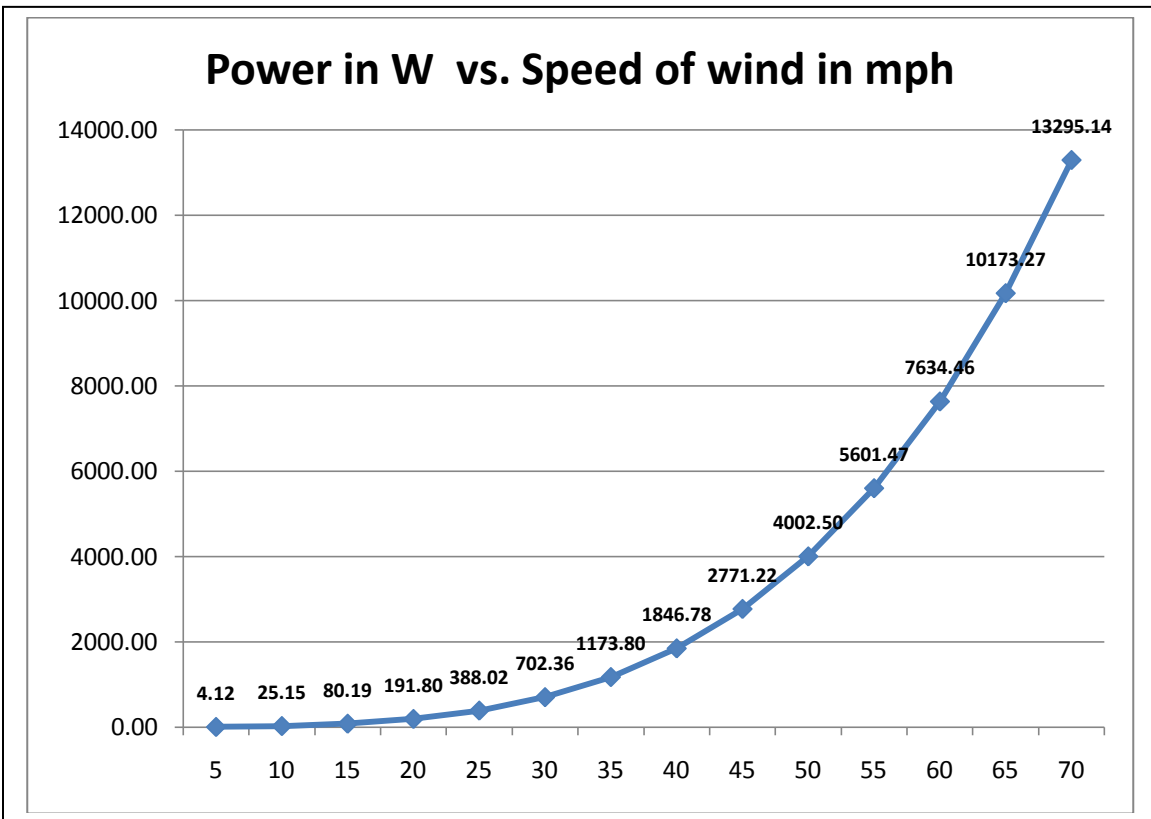
### 1. Electro-generator of series S:

- Number of copper coils - 160
- Number of loops in each coil - 38
- Wire diameter - 0.001m
- Number of magnets AX2C45-N&S (Neodymium Rare Earth alloy) - 160

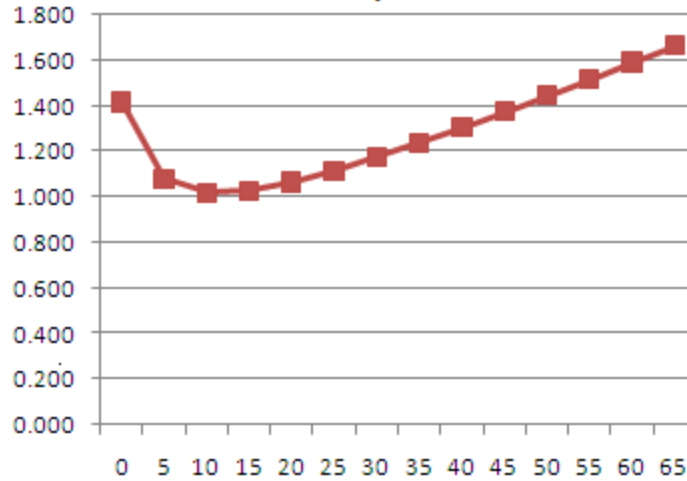




2. Recommended load - 1.5 Om
3. Consequently the generated electric power is



**Capability Index vs. Speed of wind  
in mph**



4. Performance of *Cyclopes C-56* is shown in the following **Table #1**.

**Table #1**

**Cyclopes C-56 performance for different Wind Classes**

Wind Class	Wind Power <W/m <sup>2</sup> >	Available power <W>		Minimal Daily Average Production <kW-h>	Maximal Daily Average Production <kW-h>	Minimal Annual Average Production <kW-h>	Maximal Annual Average Production <kW-h>
		Minimal	Maximal				
1	<200	0	77	0.0	1.8	0.0	675
2	200-300	77	116	1.8	2.8	675	1016
3	300-400	116	154	2.8	3.7	1016	1349
4	400-500	154	193	3.7	4.6	1349	1691
5	500-600	193	232	4.6	5.6	1691	2032
6	600-700	232	270	5.6	6.5	2032	2365
7	700-800	270	309	6.5	7.4	2365	2707
8	>800	309	-	7.4	-	2707	-

- 5. Type - downwind
- 6. Direction of Rotation - anti clockwise
- 7. Radius of rotary wheel - 0.56m
- 8. Length of rotary blades - 0.44m
- 9. Number of blades - 24
- 10. Wept Area - 1.00 m<sup>2</sup>

11. Material of blades
  - fiberglass
12. Start-up wind speed
  - 0.7 m/s (1.55 mph)
13. Survival wind speed
  - 54 m/s (120 mph)
14. Rated wind speed
  - 10 m/s
15. Rated power at rated wind speed
  - 215W
16. Rated Tip Speed of Rotation
  - 180 RPM
17. Mount
  - on top of pole with special carousel.
18. Body
  - fiberglass
19. Dimensions
  - 1.50mX1.60mX1.00m
20. Weight
  - 25 kg approximately
21. Over speed protection
  - Automatic
22. Produced current converter:
  - Exit voltage
    - 110-360 V
  - Exit current's frequency
    - 50-60 Hz
23. Produced power counter
24. Warranty
  - 5 years limited warranty



1:3 model of "Cyclopes C-56"