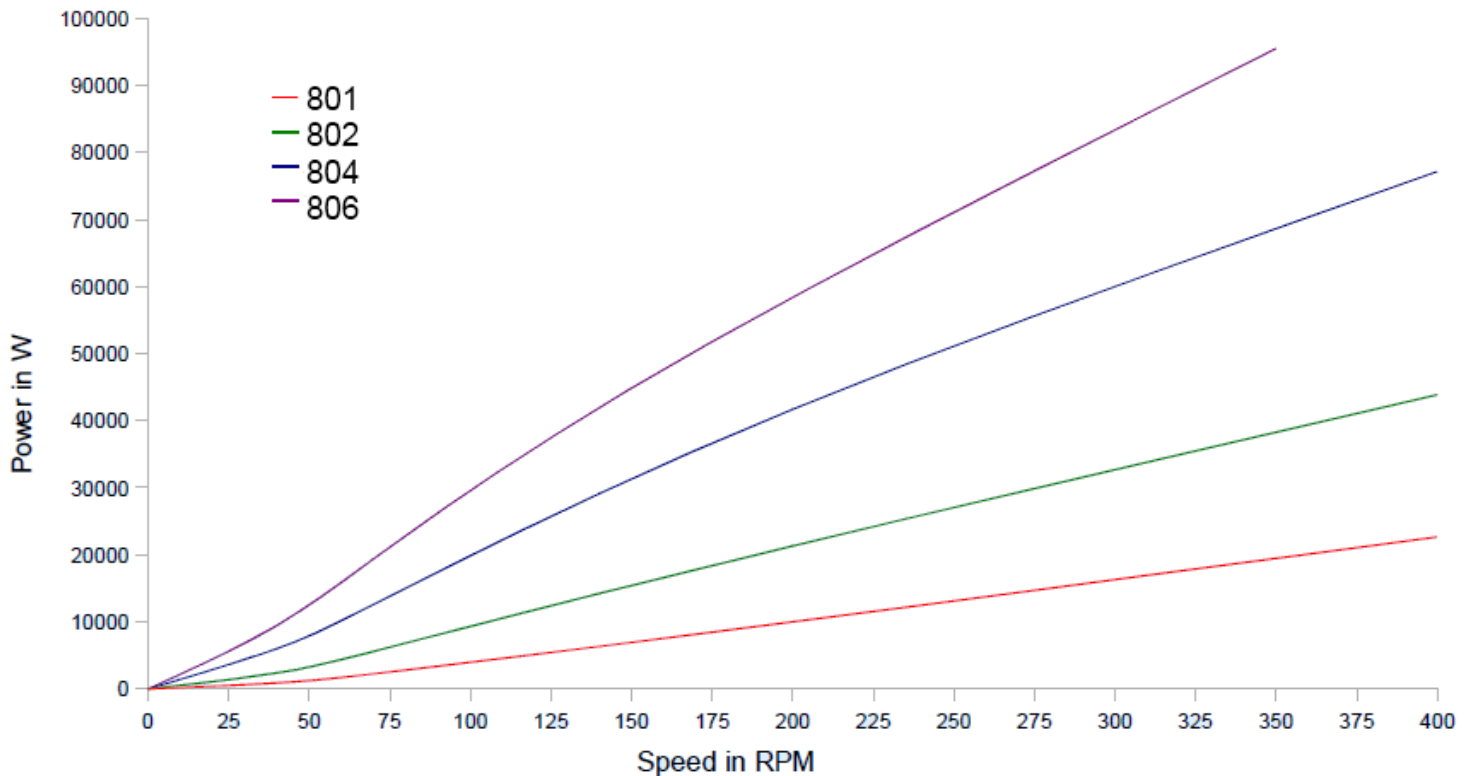


TECHNICAL CHARACTERISTICS

800 ATK ALTERNATORS

		801		802		803		806			
Rated speed		tr/min		80	400	80	400	80	400		
Rated Power at Rated Speed	Rated power (1)(2)	W		2823	22678	6860	43865	15029	77145	22884	95484
	Input torque at rated speed(1)(2)	N.m		478	611	1049	1135	2196	1962	3259	2771
	Efficiency at rated power (1)(2)	%		71	89	79	93	82	94	84	94
	Current at rated power (1)	A		7.3	56.3	17	102.9	38.4	203	52.8	190
	Voltage at rated power (1)(2)(3)	V		231	238	238	253	230	226	255	300
Power at Half speed	Rated Power at half speed (1)(2)	W		911	10009	2395	21318	6026	41694	9488	51789
	Input torque at half speed (1)(2)	N.m		366	582	813	1161	2196	2188	3152	3084
	Efficiency at half speed (1)(2)	%		60	82	71	88	68	91	72	92
Number of poles (number of pairs of poles)		48(24)									
Cogging torque		N.m		5.5		11		22		33	
Phase resistance at 20°C		Ohm		6.45	0.2	1.7	0.06	0.53	0.02	0.36	0.02
Phase inductance (5)		mH		31	0.94	14.1	0.48	6.3	0.18	4.9	0.27
Voltage at no load (back emf) at 20°C (4)		V		342	299	324	298	307	256	333	336
Rotor inertia		10 ⁻³ kg.m ²		1270		2540		5080		7620	
Weight		kg		55		82		138		193	
Power cable square section (6)		mm ²		4x1.5		4x10		4x2.5		4x25	
Power cable diameter		mm		Ø8		4xØ9.5		Ø9.6		4x Ø13.5	

Alternator 800 ATK Power - Speed



- (1) Ambient temperature 40°C
Wind speed 10 m/s cooling the housing
Winding temperature rise < 100°C
Stator housing in contact with the ambient air or integral on all its peripheral area with a metallic armature in contact with the ambient air
Stator housing secured on a metallic frame getting an area equal to twice the cross section of the housing
- (2) Operation in sine wave mode with unity power factor
- (3) Line to line voltage. Voltage level may be adapted according to the application; please contact us
- (4) Line to line voltage, alternator at no load, rated speed and at 20°C
- (5) For current at rated power
- (6) For currents lower than 53 Amps, one cable
For currents over 53 Amps, four single wires output (highlighted in the table)