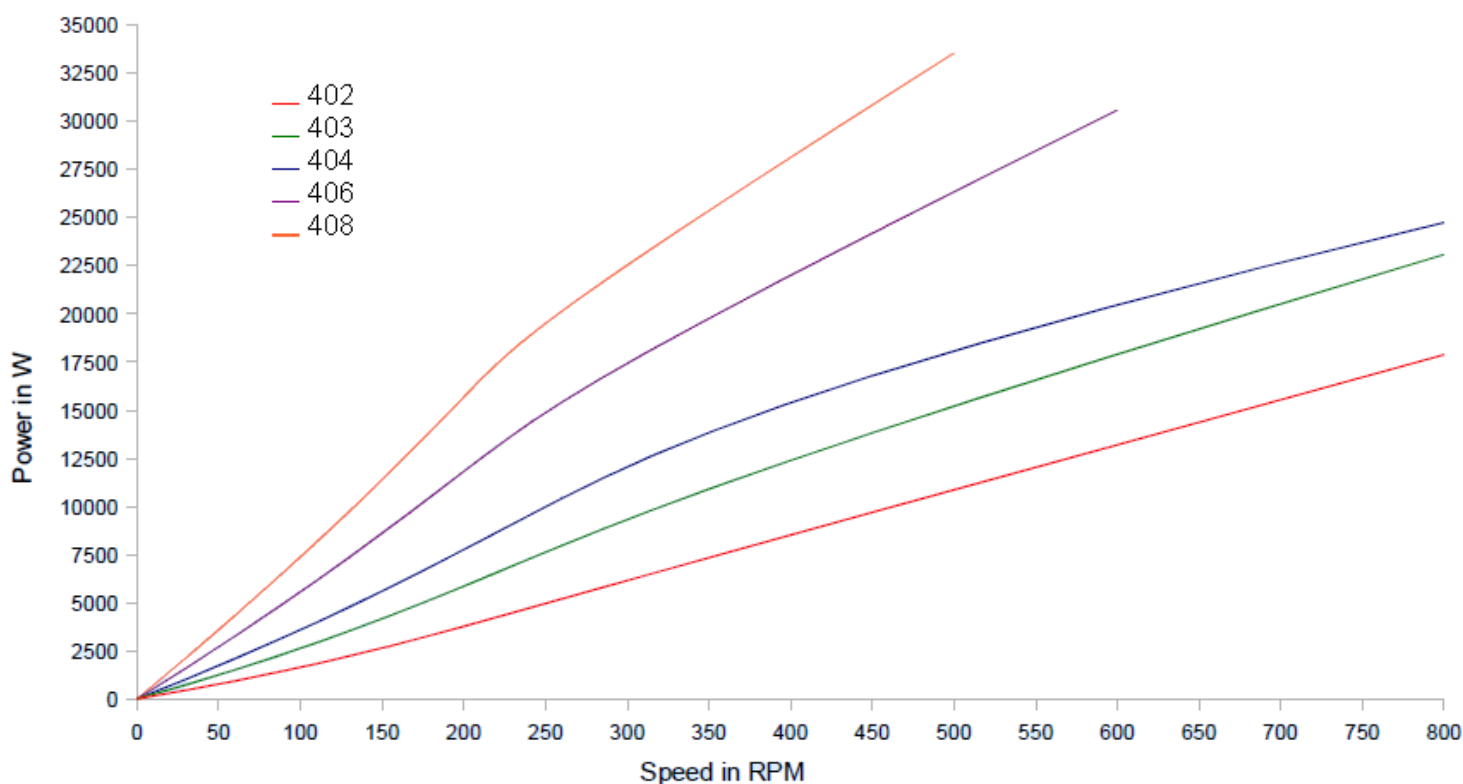


# TECHNICAL CHARACTERISTICS

## 400 ATK ALTERNATORS

		402		403		404		406		408							
Rated Power at Rated Speed	Rated speed	tr/min		220	800	220	800	220	800	220	600	220	500				
	Rated power (1)(2)	W		4251	17874	6594	23082	8673	24737	13377	30588	17457	33552				
	Input torque at rated speed(1)(2)	N.m		235	234	347	297	444	317	677	523	869	688				
	Efficiency at rated power (1)(2)	%		79	92	83	93	85	93	86	93	87	93				
	Current at rated power (1)	A		10,2	42	15,7	55,2	21	62,3	32,4	80,7	41,3	79,3				
	Voltage at rated power (1)(2)(3)	V		246	253	247	250	244	240	243	227	249	253				
Rated Power at Halfspeed	Rated Power at half speed (1)(2)	W		1605	8531	2630	12890	3702	16648	5804	17913	7755	20081				
	Input torque at half speed (1)(2)	N.m		204	235	312	346	443	441	679	636	869	855				
	Efficiency at half speed (1)(2)	%		69	87	74	89	73	91	74	90	77	88				
	Number of poles (number of pairs of poles)	24 (12)															
	Cogging torque	N.m		2		3		4		6		8					
	Phase resistance at 20°C	Ohm		2,48	0,15	1,24	0,07	0,74	0,04	0,42	0,04	0,29	0,05				
	Phase inductance (5)	mH		21	1,24	12,7	0,7	8,7	0,47	5,8	0,52	4,34	0,69				
	Voltage at no load (back emf) at 20°C (4)	V		346	305	330	285	314	266	314	257	314	285				
	Rotor inertia	10 <sup>-3</sup> kg.m <sup>2</sup>		26,4		52,7		105,5		158,2		650		14,26			
	Weight	kg		11,5		18		31		44		104		40			
	Power cable square section (6)	mm <sup>2</sup>		4x1,5		4x1,5		4x10		4x4		4x10		4x6		4x16	
	Power cable diameter	mm		Ø8		Ø8		4xØ9,5		Ø11,1		4xØ9,5		Ø13,4		4xØ11	

### Alternator 400ATK 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)