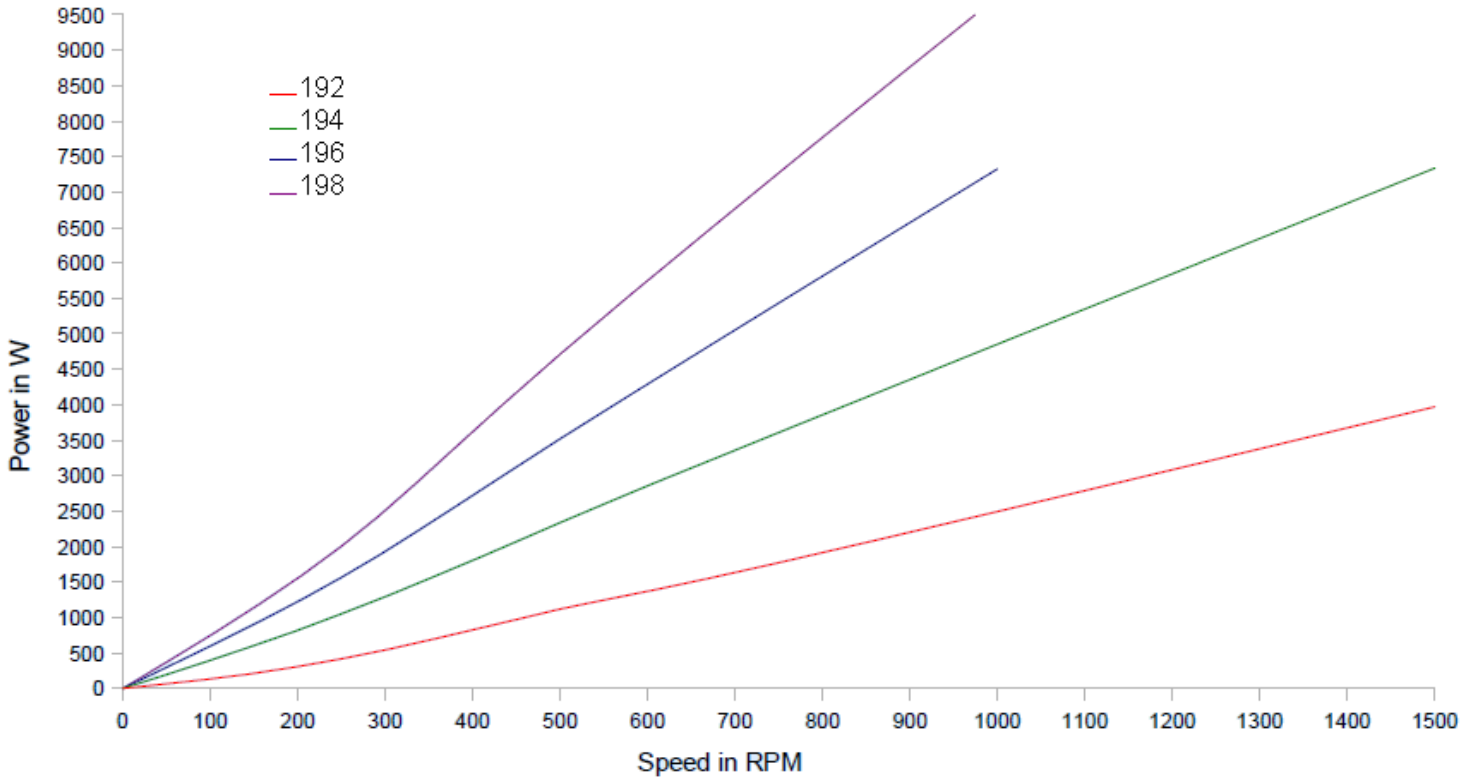


# TECHNICAL CHARACTERISTICS

## 190 ATK ALTERNATORS

		<b>192</b>		<b>194</b>		<b>196</b>		<b>198</b>			
Rated speed		tr/min		500	1500	500	1500	500	1000	500	1000
Rated Power at Rated Speed	Rated power (1)(2)	W		1118	3972	2337	7339	3519	7325	4713	9757
	Input torque at rated speed(1)(2)	N.m		27,2	30,9	54,3	53,1	80,7	79,9	107,3	106,1
	Efficiency at rated power (1)(2)	%		79	85	83	88	84	87	84	88
	Current at rated power (1)	A		2,8	11,1	5,7	19,5	8,6	17,8	11,4	25,6
	Voltage at rated power (1)(2)(3)	V		244	229	249	234	251	253	252	235
Power at Half speed	Rated Power at half speed (1)(2)	W		416	1773	1051	3608	1565	3519	2005	4713
	Input torque at half speed (1)(2)	N.m		21,8	31	54,4	53,8	81,5	80,7	98,2	107,3
	Efficiency at half speed (1)(2)	%		73	83	71	86	74	84	78	84
Number of poles (number of pairs of poles)		12 (6)									
Cogging torque		N.m		0,5		0,9		1,3		1,7	
Phase resistance at 20°C		Ohm		8,82	0,84	3,03	0,27	8,82	0,84	3,03	0,51
Phase inductance (5)		mH		83,8	8,3	40,8	3,5	83,8	8,3	40,8	4,1
Voltage at no load (back emf) at 20°C (4)		V		357	334	352	308	357	334	352	334
Rotor inertia		10 <sup>-3</sup> kg.m <sup>2</sup>		4,12		7,5		10,88		14,26	
Weight		kg		13		22		31		40	
Power cable square section (6)		mm <sup>2</sup>		4x1,5		4x1,5		4x2,5		4x1,5	
Power cable diameter		mm		Ø8		Ø8		Ø9,6		Ø8	

Alternator 190ATK 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)