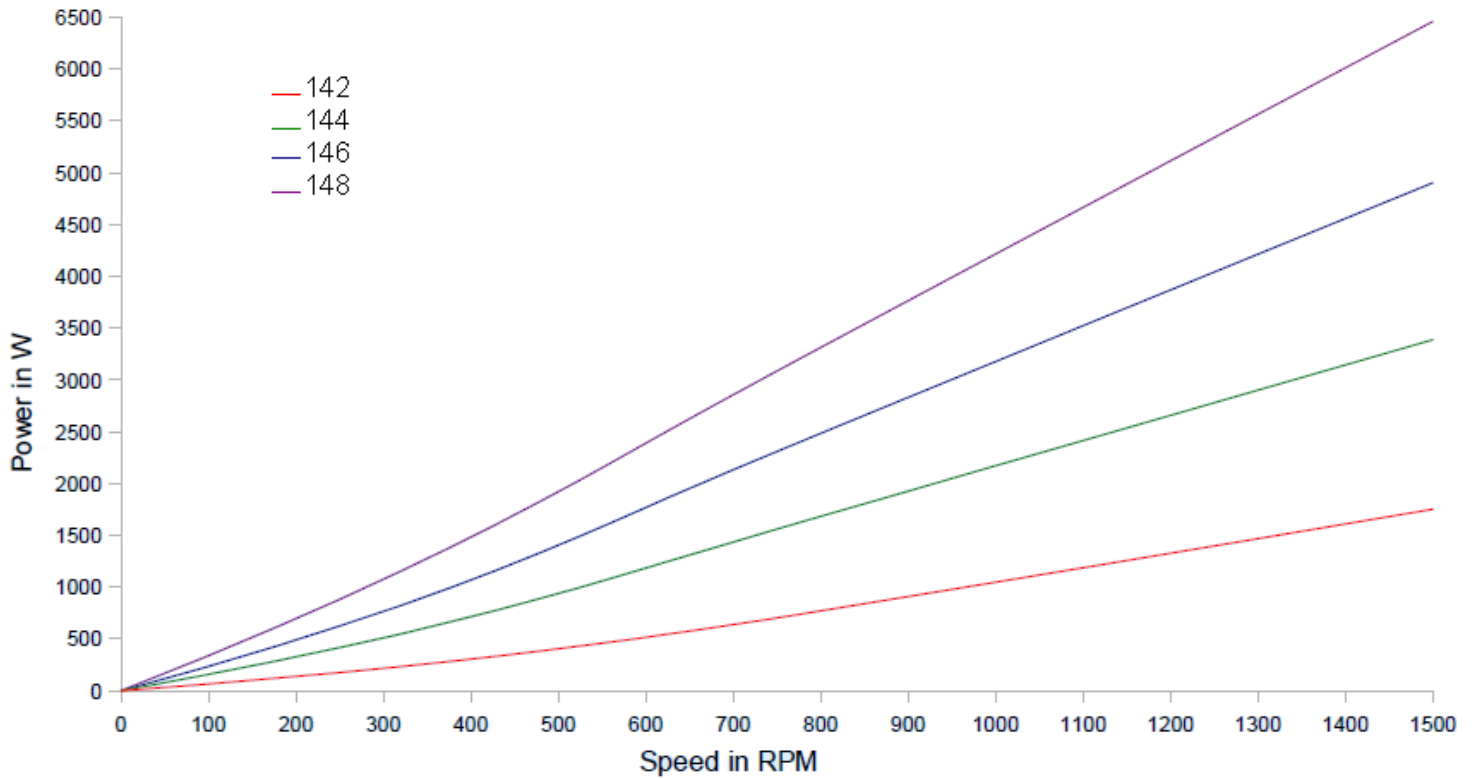


TECHNICAL CHARACTERISTICS

140 ATK ALTERNATORS

		142		144		146		148			
Rated Power at Rated Speed	Rated speed	tr/min		650	1500	650	1500	650	1500	650	1500
	Rated power (1)(2)	W		571	1752	1307	3389	1962	4904	2633	6462
	Input torque at rated speed(1)(2)	N.m		11,2	13,9	25,4	25,2	36	35,9	47,8	47
	Efficiency at rated power (1)(2)	%		75	81	76	86	81	87	81	88
	Current at rated power (1)	A		1,4	4,3	3,2	8	4,8	13	6,4	16
	Voltage at rated power (1)(2)(3)	V		244	250	243	260	246	231	249	248
Power at Half speed	Rated Power at half speed (1)(2)	W		204	690	493	1566	739	2319	1075	3097
	Input torque at half speed (1)(2)	N.m		8,9	11,5	20,7	25,4	28,8	36	43,5	47,8
	Efficiency at half speed (1)(2)	%		68	77	70	78	76	82	73	83
	Number of poles (number of pairs of poles)	12 (6)									
	Cogging torque	N.m		0,2		0,4		0,6		0,8	
	Phase resistance at 20°C	Ohm		19,8	4,53	8,6	1,4	4,11	0,59	3,18	0,51
	Phase inductance (5)	mH		105	24	60	10	34	4,9	25,8	4,1
	Voltage at no load (back emf) at 20°C (4)	V		365	393	390	367	357	312	361	334
	Rotor inertia	10 ⁻³ kg.m ²		1,28		2,24		3,19		4,14	
	Weight	kg		6,2		10,4		14,5		18,7	
	Power cable square section (6)	mm ²		4x1,5		4x1,5		4x1,5		4x1,5	
	Power cable diameter	mm		Ø8		Ø8		Ø8		Ø8	

Alternator 140ATK 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)