

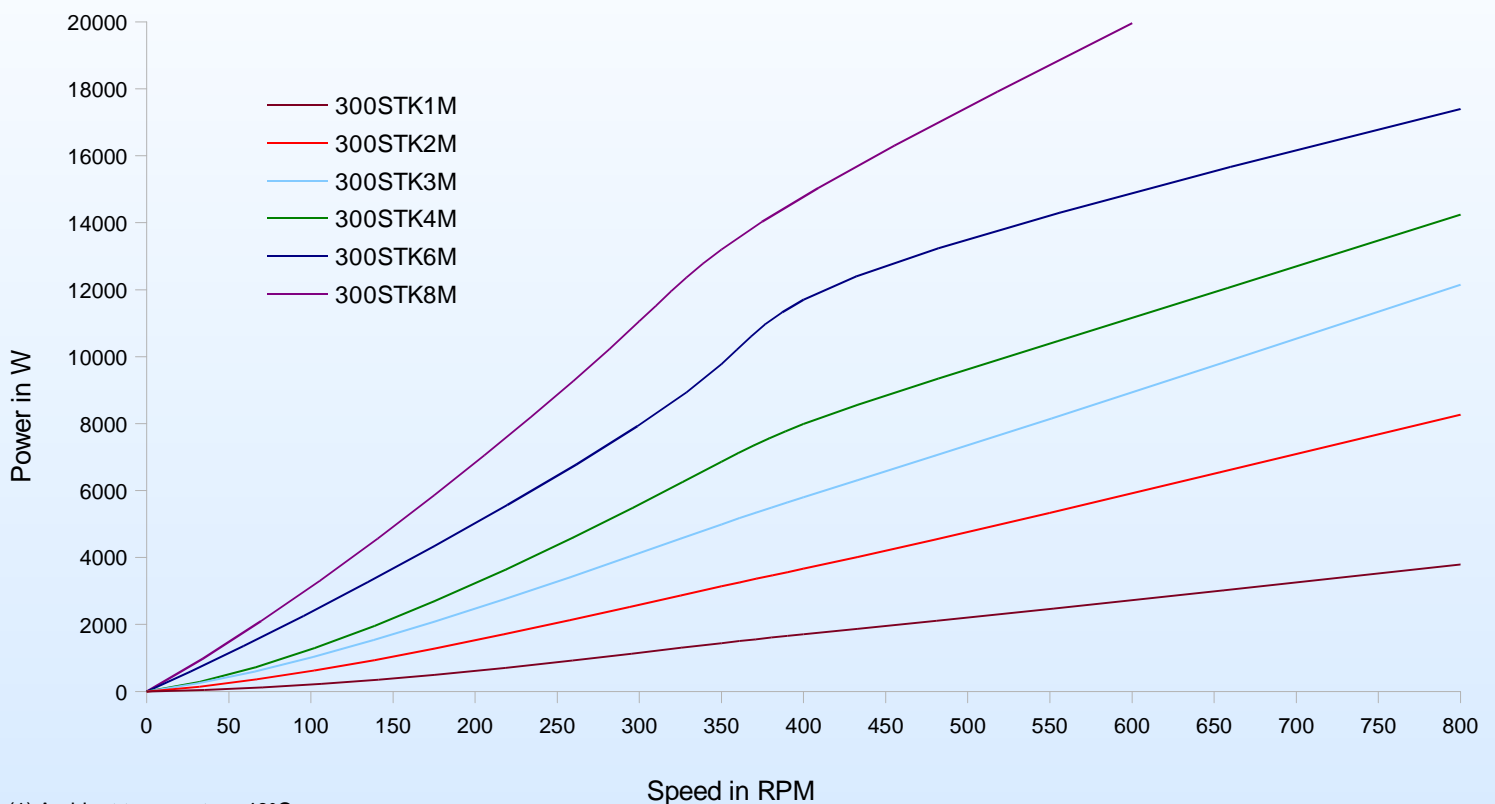
TECHNICAL CHARACTERISTICS

300 STK ALTERNATORS

See also the curves of Voltage, Torque, Efficiency vs Speed

			300STK1M		300STK2M		300STK3M		300STK4M		300STK6M		300STK8M	
Rated speed			350	800	350	800	350	800	350	800	350	800	350	600
Rated Power at Rated speed	Rated power (1)(2)	W	1444	3793	3141	8270	4990	12150	6858	14240	9782	17399	13201	19965
	Input torque at rated speed(1)(2)	N.m	52.5	52.4	104	111	162	160	225	187	310	226	415	348
	Efficiency at rated power (1)(2)	%	75	87	82	89	83	90	84	92	87	92	87	92
	Current at rated power (1)	Amps	3.7	9.9	7.3	19.2	12.1	27.1	16.8	34.2	23.6	42.9	30.4	50
	Voltage at rated power (1)(2)(3)	V	232	230	255	258	239	261	242	251	247	247	258	240
Rated Power at Half speed	Rated Power at half speed (1)(2)	W	496	1706	1276	3665	2080	5800	2688	7985	4333	11700	5853	11058
	Input torque at half speed (1)(2)	N.m	40.5	52.4	99	104.5	161	162	186	225	310	309	415	414
	Efficiency at half speed (1)(2)	%	67	78	71	84	70	85	78	85	77	88	77	85
Number of poles (number of pairs of poles)			24 (12)											
Cogging torque			0.5		1		1.5		2		3		4	
Phase resistance at 20°C			8.75	1.24	2.87	0.51	1.36	0.21	0.97	0.15	0.53	0.08	0.4	0.1
Phase inductance (5)			33.4	4.8	17.3	3	10.1	1.52	8.1	1.25	5.2	0.75	4.1	1.03
Voltage at no load (back emf) at 20°C (4)			329	284	335	316	311	316	323	289	311	277	323	277
Rotor inertia			26.4		52.7		39.6		105.5		158.2		211	
Weight			11.5		18		24.5		31		44		57	
Power cable square section (6)			4x1.5		4x1.5 4x2.5		4x1.5 4x4		4x1.5 4x6		4x4 4x10		4x4 4x10	
Power cable diameter			Ø8.6		Ø8.6 Ø10.8		Ø8.6 Ø12.2		Ø8.6 Ø14		Ø12.2 Ø17.6		Ø12.2 Ø17.6	

Alternator 300STK 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)