

Outer Rotor Coreless Generator specifications

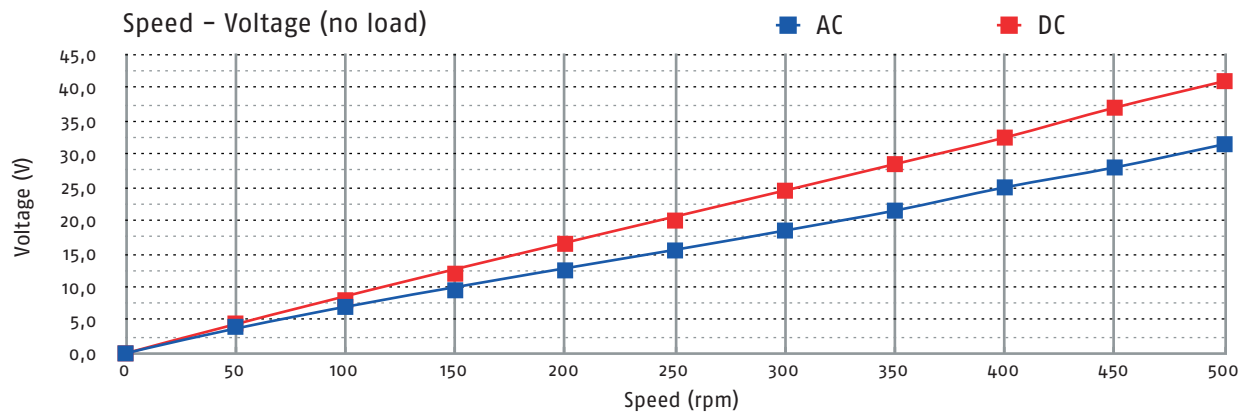
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Model No.: WCG13	200W	380rpm	28V
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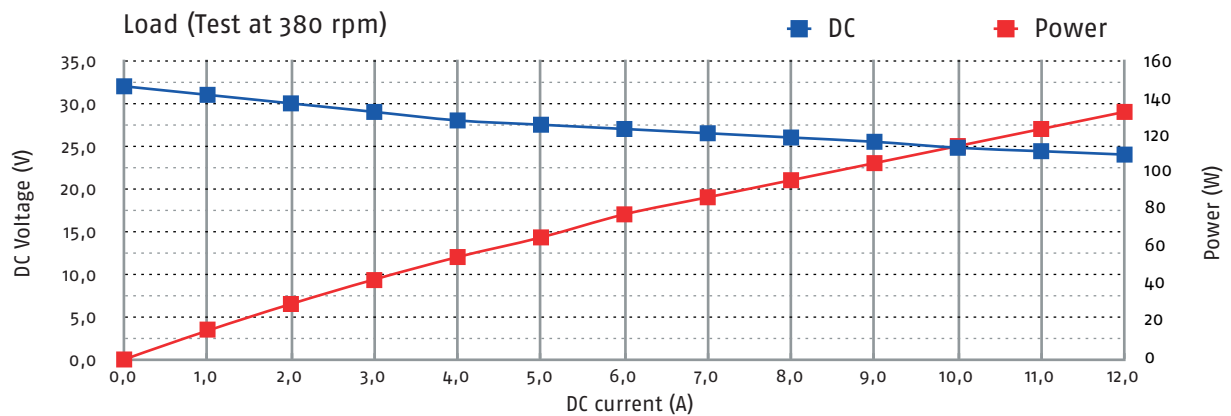
Electrical characteristics:

Parameter	Symbol	Unit	Data
Rectified DC Voltage	E	V	28
Gen. Output Voltage			AC (3 Pole)
Rotor			Permanent magnet type (outer rotor)
Stator			Coreless type
Output Power	P _o	W	200
Rated speed	ω	rpm	380
Speed Constant	K _E	V/Krpm	83.7
Resistance (Line-Line)	R _T	Ω	≤ 0.6
Maximum Winding Temperature	C _{Max}	°C	130
efficiency	η		87%
Wind type			Wye
Insulation Resistance			100Mohm Min. (500V DC)
Dielectric Strength			1500V AC 1minute
Rate Current	I _R	A	7.6
Start torque	M	Nm	Very smal, mainly depends on the bearing friction
Gen. weight	W _M	Kg	8.5
Gen. Diameter	M _D	mm	242
Gen. length	M _L	mm	97
Shaft. Diameter	M _D	mm	30
Housing Material			Aluminium (Alloy)
Shaft Material			Steel
Shaft Bearing			Ball

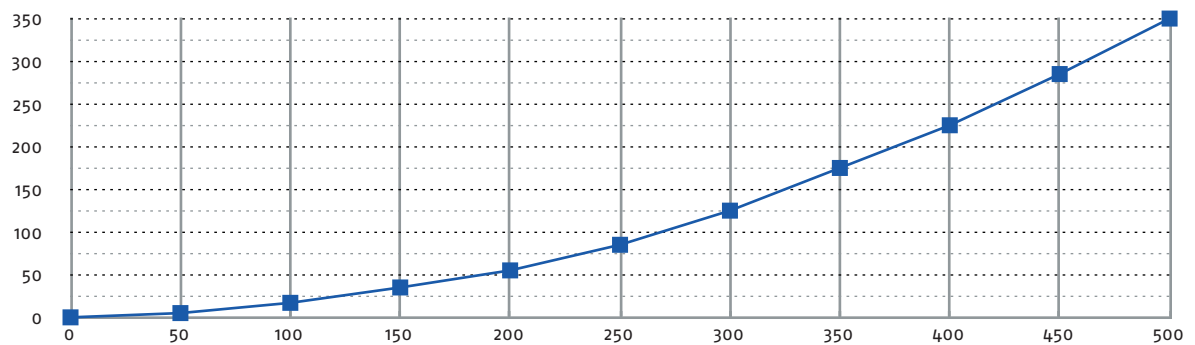
No-load test:



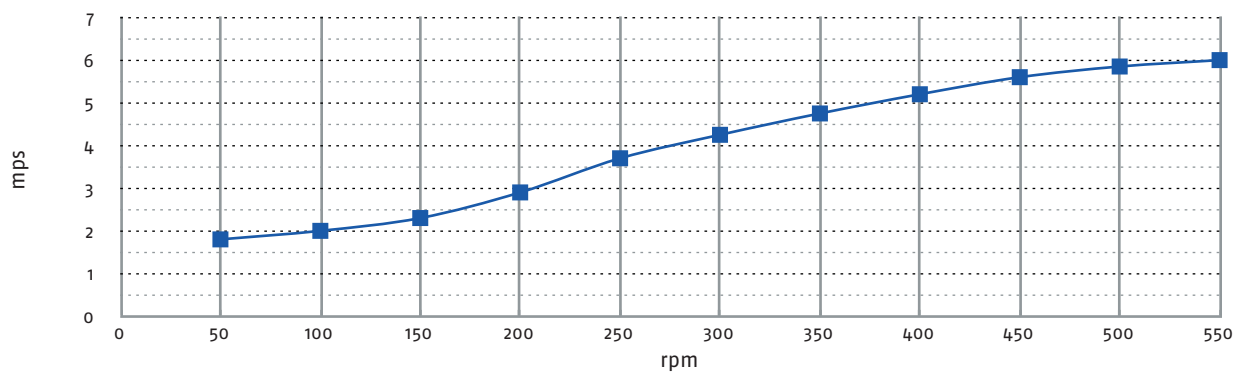
Load test at 380 rpm:



Speed-Power:



Parameter Wind module:



Technical drawing:

