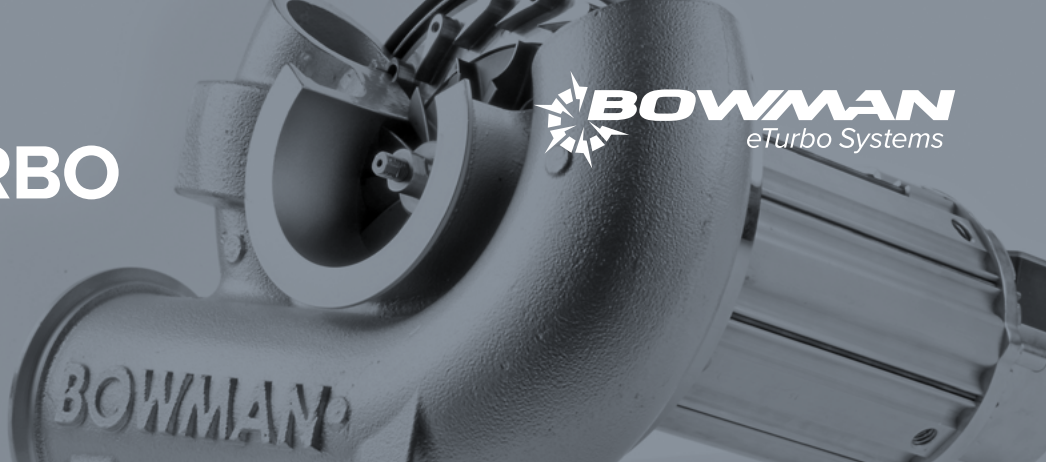


ETC 300 TURBO GENERATOR TECHNICAL DATASHEET



Overview	
Generator type	4-pole permanent magnet
Electrical power	Nom 30 / max 70 kWe (output into Mk5 power electronics)
Speed	49,000 rpm (nominal) / 52,500 rpm (max) *
Alternator efficiency (nom)	96.6% (60kW, 49 krpm)

Operating conditions	
Inlet temp (max)	+550°C (+600°C optional)
Inlet pressure	< 200 kPa-abs
Discharge pressure (nom)	100 kPa-abs

Output into Mk5 power electronics	
Output line voltage	508 VAC rms 6-phase (60kW, 49krpm)
Output frequency	1633 - 1733 Hz
Output line current	18 A (60kW, 49krpm)
HV Cable Gland Diameter	30/38 mm

Coolant / lubricant	
Required product	Mobil SHC824 synthetic turbine oil (required to retain warranty)
Oil inlet temp (max)	+65°C
Oil flow rate (min / max)	12.5 / 14.5 litres/minute
Oil pressure (min / max)	140 / 240 kPa gauge

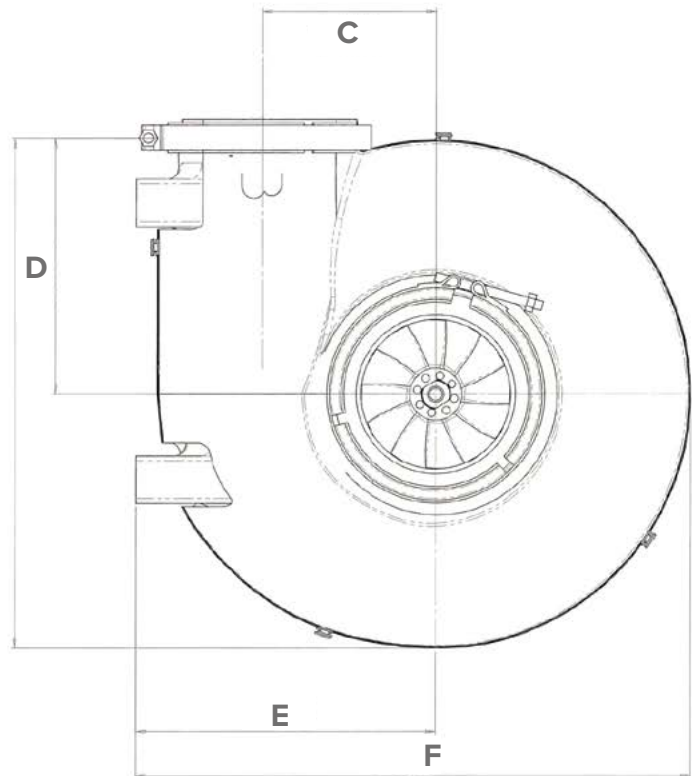
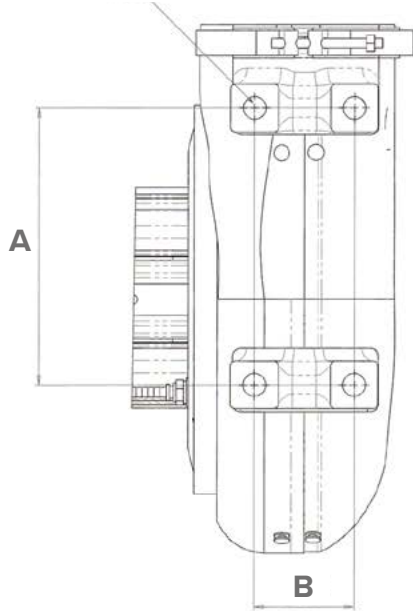
Environmental	
Operating temperature range	-25 to +50°C (ambient air temperature)
Storage temperature	-25 to +70°C
Humidity (max)	95% non condensing

Physical	
Weight	50 kg
V-Band torques	13.5 nm

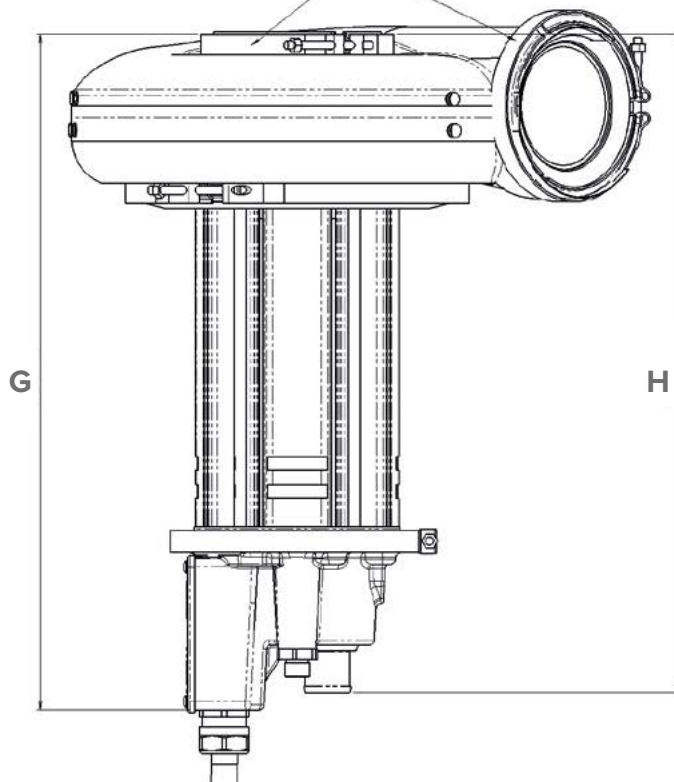
* Voltage must remain within the safe operating area of the associated power electronics converter.

ETC 300 TURBO GENERATOR TECHNICAL DATASHEET

Mounting holes M16



Then replace entire
V-Band assy.



Dimensions (mm)

A	175
B	63
C	110
D	162
E	189
F	350
G	485
H	472

For more information please contact bowmansales@bowmanpower.co.uk
or visit bowmanpower.com