

ETC 600 TURBO GENERATOR TECHNICAL DATASHEET

Overview	
Generator type	4-pole permanent magnet
Electrical power	Nom 60 / max 70 kWe (output into Mk5 power electronics)
Speed	30,000 rpm (min) / 36,000 rpm (max) *
Alternator efficiency (nom)	Typically 97.3% (60kW, 30 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	516 VAC rms 6-phase (60kW, 30krpm)
Output frequency	1000 - 1200 Hz
Output line current	36.5 A (60kW, 30krpm)

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 feed pressure (min / max)	140 / 240 kPa gauge

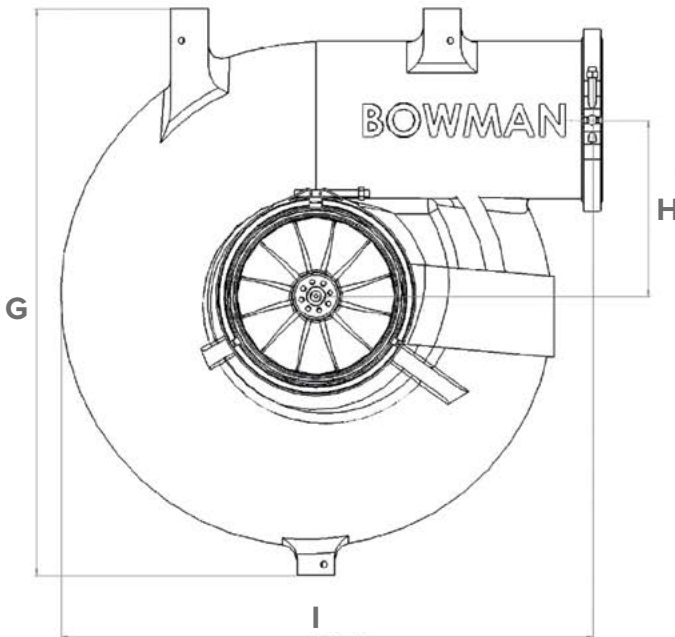
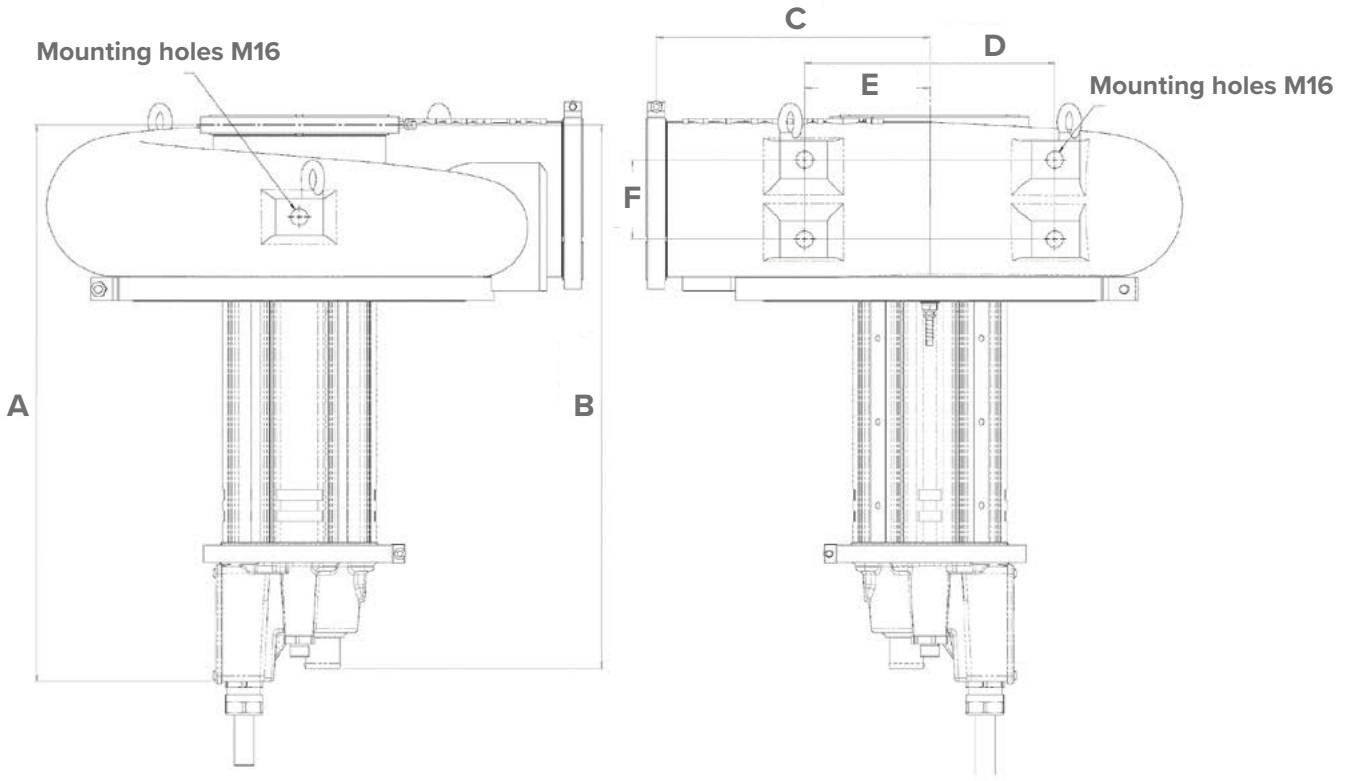
Environmental	
Operating temperature range	-25 to +50°C (ambient air temperature)
Storage temperature	-25 to +70°C
Humidity (max)	95% non condensing

Physical	
Weight	70 kg
V-Band torques	13.5 nm

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

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Dimensions (mm)

A	526
B	514
C	257
D	235
E	117.5
F	75
G	528
H	164
I	495

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