

# DEF S-One

## About

**DYNAMIC E FLOW** offers complete electrification systems and electric motor systems with capcooltech®. This technology has an infinite number of applications and it can be easily integrated into new or existing systems.

The capcooltech® technology allows to reach very high continuous power cycles and increases the robustness of the system.



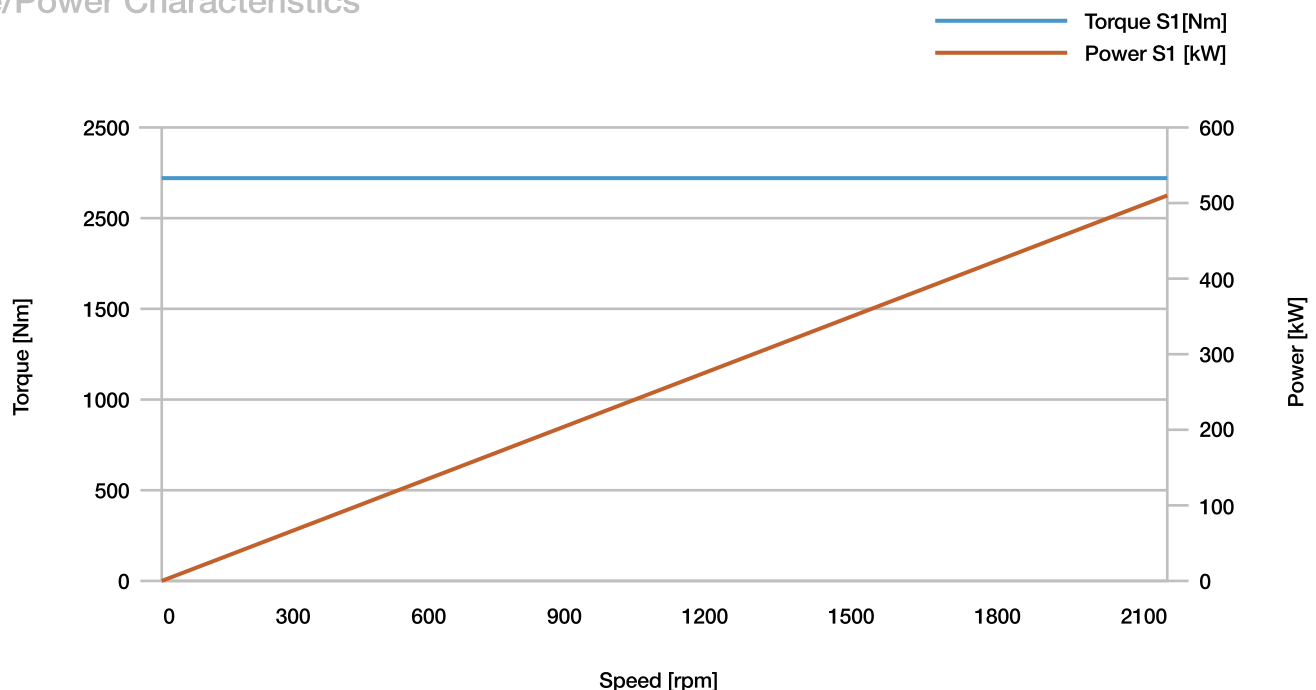
## We deliver

- max. power densities
- extreme small machine design
- available as single-bearing generator for gen-set application

## Who are We

- special machinery manufacturer
- specialist in high speed & high torque machines
- most compact active parts on the market with know how from the aerospace industry

## Torque/Power Characteristics



# Engine Type

PSM TESTED  
ACCORDING  
TO ISO 16750

Performance

		Motor		Generator	
Rated power	kW	434	506	471	550
Rated speed	rpm	1800	2100	1800	2100
Rated torque	Nm	2300	2300	2500	2500
Voltage line-line	Vrms	336	390	334	390
Rated current	Arms	900	900	900	900
Rated efficiency	%	95,7	96	95,7	96
Rated power fator	–	0,84	0,84	0,84	0,84
Ambient temperature	°C	-40 to +65	-40 to +65	-40 to +65	-40 to +65
Coolant inlet / outlet	°C	50 / 100	50 / 100	50 / 100	50 / 100

Mechanical

Mass	kg	318
Mechanical length (L)	mm	400
Flange size	–	SAE1
Bearing option	–	Single or Double
Protection	–	IP67

Electrical

Type	–	PSM Machine
Nr. pole pairs	–	12
Min. switching freq.	kHz	8 (ideally 12)
Temperature sensors	–	Winding head, cooling inlet & outlet, bearing, ambient
Pressure sensors	–	Optionally
Speed sensors	–	Resolver

Preliminary Data

