

# CPGC系列二冲程发动机

CPGC two-stroke engines



### ○ 主机功率 (ISO 工况条件下)

Engine power

发动机制动功率以kW表示, 功率在ISO3046-1条件下测得。

根据ISO15550, 表中的功率数值在海拔热带环境条件±3%内是有效的:即

-压气机进口温度45°C

-压气机进口压力1000mbar

-空冷器冷却水温度40°C

-海水温度32°C

The engine brake power is stated in kW (according to ISO3046-1).

According to ISO15550, the power values stated in the table are valid within a range of ±3% up to tropical conditions at sea level, i.e.

-Compressor inlet temperature 45°C

-Compressor inlet pressure 1000 mbar

-Air cooler inlet water temperature 40°C

-Sea water temperature 32°C

### ○ 排放标准

Emission standard

船用柴油机适用IMO Tier II、III排放标准

The engine complies with IMO Tier II and Tier III criteria.

\*如无特殊说明, 本选型手册中发动机都符合IMO Tier II 标准。

\*If no special instructions are given, the engines in this selection manual are in conformity with IMO Tier II standard.

### ○ 燃油消耗率和热值 (ISO 工况条件下)

Brake specific fuel consumption (BSFC) and calorific value

所述消耗量参照下列的参考条件测得 (根据ISO3046-1):

- 环境空气压力1000mbar

- 环境空气温度25°C

- 增压空气温度视发动机型号而定, 与空冷器前的冷却水温度40°C相对应。

The stated consumption figures refer to the following reference conditions according to ISO 3046-1:

-Ambient air pressure 1000mbar

-Ambient air temperature 25°C

-Charge air temperature according to engine type, corresponding to 40°C cooling water temperature before CAC.

### ○ 燃油消耗率

Brake Specific fuel consumption (BSFC)

燃油消耗率数值以 g/kWh 为单位, 所用燃油低热值 (LCV) 为 42,700 kJ/kg。

The BSFC figures are given in g/kWh and are based on the use of a fuel oil with a low calorific value (LCV) equal to 42,700 kJ/kg.

### ○ 燃油消耗率公差

Tolerance of brake specific fuel consumption (BSFC)

燃油消耗数值公差为+3%, 主机不带发动机驱动泵, 比如机带高压燃油泵、燃油输送泵、滑油泵、海水泵、高温水泵、低温水泵。

The BSFC figures are given with a tolerance of +3% and without engine driven pumps, with high pressure fuel pump, fuel feed pump, lubricating oil pump, sea water pump, high temperature water pump, low temperature water pump.

### ○ 尺寸和重量

Dimension and weight

对于船用推进发动机, 所述重量不包含润滑油和冷却水。

对于发电机组, 所述重量包含整套设备 (包括交流发电机), 但发电机组的重量可能因选用的交流发电机而不同。

发电机组单元的长度取决于选用的交流发电机。

For marine main engines, the weights stated refer to engines without lube oil and cooling water.

For GenSets, weights refer to the unit (including alternator). The weight of the Generating Sets may vary depending on the alternator make.

The length of the Generating Sets unit depends on the alternator make.





## 发动机型号说明 Engine Model Description

6 E X 340 E F - U A

性能等级: A~Z  
Performance Level: A~Z  
使用范围: U-船用; P-电站  
purpose: U-Marine; P-Power station

燃料类型: F-燃油; DF-双燃料  
Fuel type: F-Fuel; DF-Dual fuel

控制系统: E-电子控制; M-机械控制  
Control system: E-Electronic control;  
M-Mechanical control

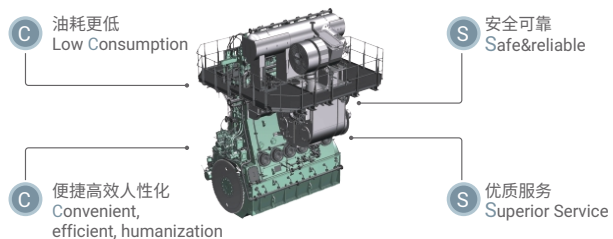
气缸直径: 340mm  
Bore: 340mm

结构: 超长冲程  
Structure: Super Long stroke

机型: 二冲程低速机  
Engine type: Two-stroke low speed engine

气缸数: 6个  
Cylinder number: 6

## EX340系列二冲程低速发动机



### 主要参数 Main Data

缸径bore	340mm
冲程stroke	1600mm
行程缸径比Cylinder bore stroke ratio	4.71
转速Rated speed	125-169 r/min
燃油类型Fuel type	轻油/重油MDO/HFO
平均大修期Overhaul time	36000h
机体形式Design type	二冲程十字头式、A型机架 Two-stroke crosshead and A-frame
转向Turn	顺时针 (从输出端观察), 可反转 Clockwise (from the output), reversible
燃油系统Fuel system	电控共轨系统 Electronic Common Rail System

### 输出功率及外形尺寸

#### RATED POWER and PRINCIPAL DIMENSIONS

气缸数 CVL	输出功率kW				长Amm	*干重t
	169rpm		125rpm			
	P1	P2	P3	P4		
5	4600	3680	3400	2720	4490	71
6	5520	4416	4080	3264	5090	81
7	6440	5152	4760	3808	5690	92
8	7360	5888	5440	4352	6290	102
9	8280	6624	6120	4896	6890	113

尺寸mm	B	C	D	E	F
	600	7300	2420	830	7111

\*干重含涡轮增压器及飞轮

\*Dry weight incl. T.C and flywheel

### 燃油油耗(BSFC)

额定点	P1	P2	P3	P4
平均有效压力 (bar)	22.5	18	22.5	18
有效燃油消耗率 (g-kWh)	174	170	174	170

