V51/60G



Everllence

The 51/60G gas engine is a perfect component for power plants, achieving an efficiency of approximately 50 % in single cycle and starting time below 5 min. Building on the experience of its predecessors, the 51/60G with two-stage turbocharging is even more efficient and powerful.

Benefits at a glance

- Excellent efficiency of > 50 %, even in part load
- High reliabilty and fuel flexibility
- No derating due to high altitude or high temperatures

V51/60G

Dimensions

Cyl. No.	18
L (mm)	13,148
H (mm)	6,530
W (mm)	4,700
Engine weight (t)	310



With two-stage turbocharging

Dimensions

Cyl. No.	18
 L (mm)	19,100
H (mm)	9,023
W (mm)	4,700
Engine weight (t)	345



Output

Engine model	18V51/60G and 18V51/60G with two-stage turbocharging		
	High efficiency	High power	
Output mech. (kW)	18,900	20,700	
Speed (rpm)	500 / 514	500/514	
Frequency (Hz)	50/60	50/60	

Values according to ISO 3046-1:2002; ISO 15550:2002. Last updated January 2024

General data

- · Engine cycle: four-stroke
- No. of cylinders: 18 V
- Bore: 510 mm Stroke: 600 mm

Fuel efficiency comparison



Power-to-weight ratio (MCR)

 SaCoS_{one} safety and control system on engine, developed in-house

Turbocharging system

- High efficiency constant pressure TCA series exhaust turbocharging
- system Individual engine / turbocharger
- optimization matching
- No derating due to high altitude or high temperatures due to two-stage turbocharging

Fuel & gas system

- Individual cylinder low pressure gas admission system (5 bar(g) at inlet of gas valve unit)
- Automatic adjustment of engine operation to variable gas qualities (ACC)

Fuels

- Various gaseous fuels, like natural gas
- E-methane and up to 25 % hydrogen blending

Applications

- Base load and balancing plants
- CHP plants

Contact

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