

## V12-1650 and V12-1800. Engine description.

### Characteristics

- Cylinders and arrangement: 12 cylinders in 90° V design
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: 2-stage exhaust turbocharger with intercooler, boost pressure control with waste gate
- Number of valves: 4 valves per cylinder
- Fuel system: Common Rail direct fuel injection with electronic control
- Engine lubrication: Closed system with forced feeding, oil cooling and filtering
- Type of cooling: Plate heat exchanger, seawater cooled
- Engine control: Electronic injection control (EDC)  
Electronic engine monitoring including diagnostic unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC, EPA Tier 2, 97/68/EC
- Fuel: DIN EN 590

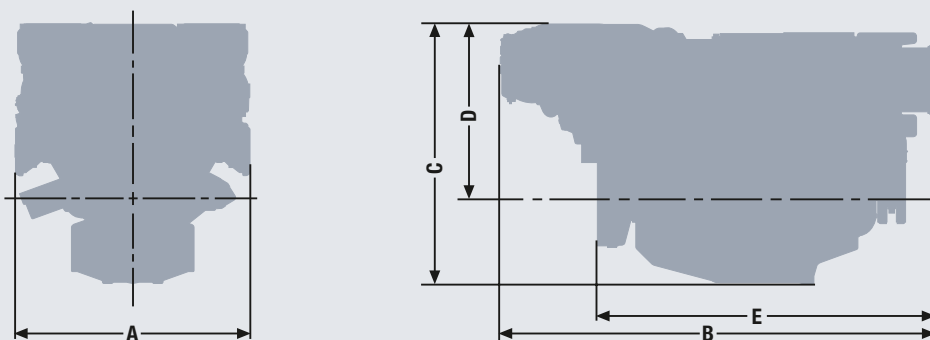
# V12-1650 and V12-1800.

## Technical data.

### Technical features V12-1650 and V12-1800

Type of engine		V12-1650	V12-1800
Displacement	l	24.24	24.24
Maximum output to DIN ISO 3046-1 <sup>1)</sup>	kW (hp)	1,213 (1,650)	1,324 (1,800)
Rated speed	rpm	2,300	2,300
Maximum torque	Nm	5,520	6,020
at speed	rpm	1,200–2,100	1,200–2,100
Weight (dry)	kg	2,400	2,365
Fuel consumption at rated power	l/h	315	339
Classifiable		✓	–

1) The ratings are only for operation of private yachts.



### Dimensions V12-1650 and V12-1800

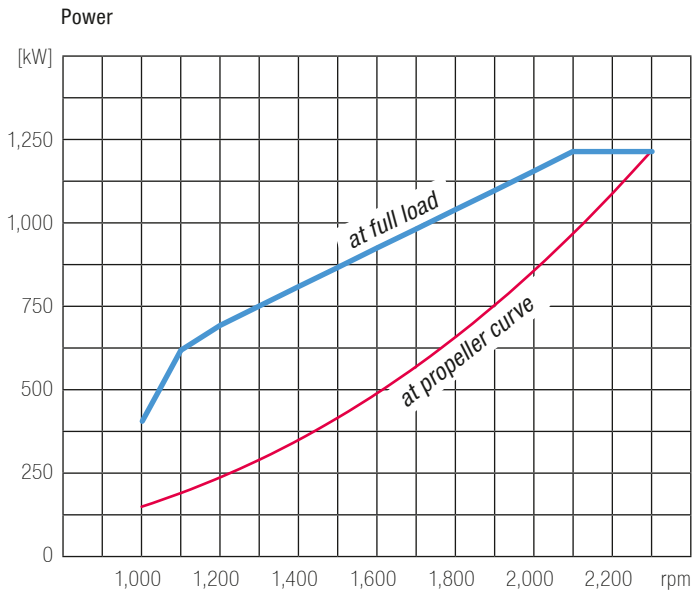
Type of engine		V12-1650	V12-1800
A-Overall width of engine	mm	1,150	1,153
B-Overall length of engine	mm	2,255	2,139
C-Overall height of engine	mm	1,350	1,265
D-Top of engine to crankshaft centre	mm	885	811
E-Length of engine from front end to edge of flywheel housing	mm	1,667	1,658

For detailed examinations of installation dimensions, please order drawings from our factory.

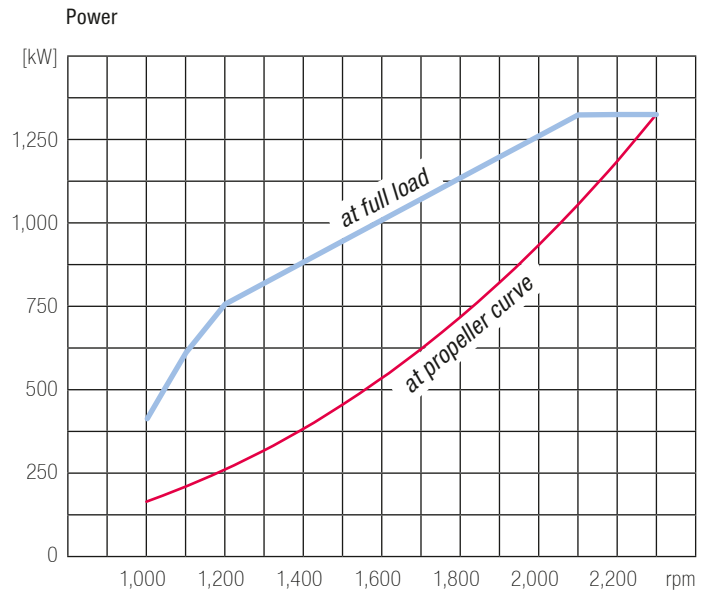
# V12-1650 and V12-1800.

## Power charts.

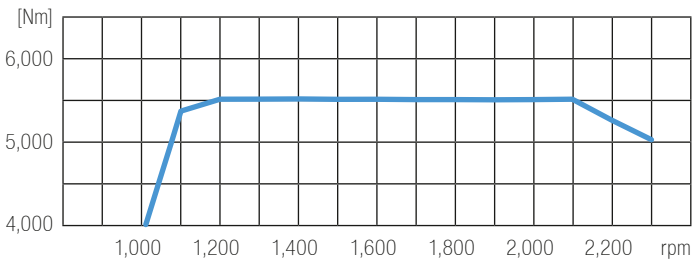
**V12-1650**



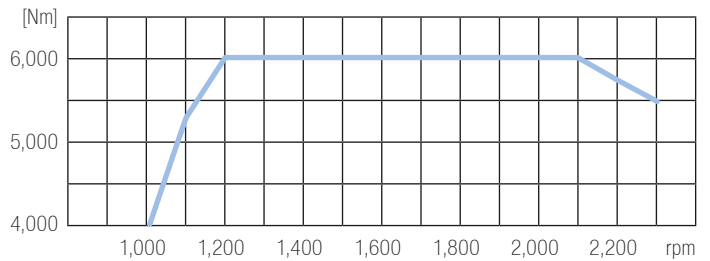
**V12-1800**



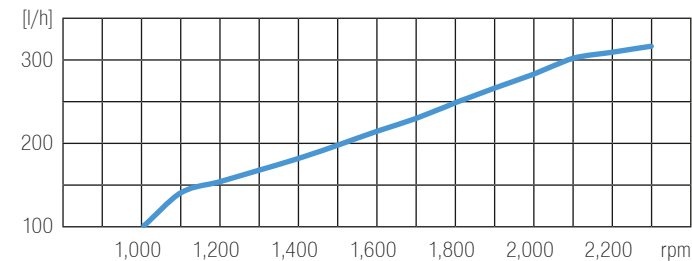
Torque



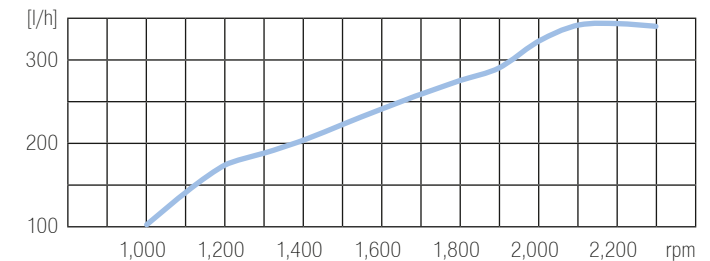
Torque



Absolute fuel consumption



Absolute fuel consumption



■ V12-1650 with 1,213 kW (1,650 hp at 2,300 rpm)

■ V12-1800 with 1,324 kW (1,800 hp at 2,300 rpm)