

C18

MARINE GENERATOR SET

599 bkW (803 bhp) @ 1800 rpm (60 Hz)



C18 Marine Generator Set
U.S. EPA Tier 3 / IMO II
Image may not reflect actual product.

ENGINE SPECIFICATIONS

Configuration

In-line 6, 4-stroke-cycle diesel

Emissions

U.S. EPA Tier 3 / IMO II
emissions certified

Rated Engine Speed

1800 rpm

Bore x Stroke

145 mm x 183 mm / 5.7 in x 7.2 in

Displacement

18 Liter
1098 cu in

Aspiration

Turbocharged-aftercooled
aspiration

Governor

Electronic (A4 ECM)

Refill Capacity

Lube Oil System w/Oil filter change:
68 L (18 gal)

Oil Change Interval

500 hrs

Cooling

Heat exchanger, keel or radiator cooled

Generator

SRMP - Random Wound

FEATURES AND BENEFITS

- Separate-circuit aftercooling – no sea water in aftercooler
- Reliable electronic controlled unit injector fuel system
- Enhanced control of fuel injection optimized through crank timing and A4 ECM technology
- Advanced combustion technology to optimize fuel consumption and meet emissions without aftertreatment
- Industry leading power reserve
- Wide range of available Marine Society certifications
- Industry-leading warranty coverage for factory packaged components
- Global dealer network for service in any location

STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooled (SCAC)
- Heavy-duty inlet air filter
- Heat exchanger or keel cooling
- Watercooled exhaust manifold and turbocharger
- Oil filler, filter, and dipstick, front service
- MEUI fuel system
- Fuel filter, front service
- Fuel transfer and priming pumps
- Hybrid fuel lines
- Electronic fuel/air ratio control
- Electronic diagnostics and fault logging
- IP23, air cooled, random wound SRMP generator offered in 440, 480, and 690V
- High deflection inclined rubber isolated mounting for vibration and structure borne noise reduction

OPTIONAL ATTACHMENTS

- Starting motors – electric, air, or dual
- Charging alternator
- Duplex oil and fuel filters, front service
- Primary fuel/water separator, fuel cooler
- EMCP 4.2 control panel
- MGCP II or MGCP IIIB control panel with Cat Alarm and Protection System
- Closed crankcase fumes disposal
- Power take-offs
- IP44 generator protection

AUXILIARY RATING DEFINITION

All Cat Marine Auxiliary engines and generator sets are rated for prime power for continuous electric service according to ISO 8528-1.

Hours per Year	Unlimited
Load Factor	≤ 70%
Overload Capacity	+ 10% maximum of 1 hour in 12 maximum of 25 hours per year

BUILT FOR IT.™



TECHNICAL DATA

C18 Marine Generator Set

FUEL CONSUMPTION - CONSTANT SPEED

%Power	Brake Specific Fuel Consumption 599 bkW (803 bhp) @ 1800 rpm				
	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr
100	565	803	0.350	599	212.7
90	509	723	0.351	539	213.5
80	452	642	0.356	479	216.7
70	396	562	0.341	419	207.7
60	339	482	0.348	360	211.8
50	283	402	0.364	300	221.1
40	226	322	0.376	240	240.5
30	170	241	0.395	180	250.6

- ISO 3046/1 fluid consumption tolerance of +5%

Note:
Consult your local Cat dealer to create a customized engine TCO (Total Cost of Ownership) analysis specific to your vessel. Dealers (only): Please reference TMI Web for most current information.

DIMENSIONS & WEIGHT

	Length (1)	Height (2)	Width (3)	Engine dry weight
min.	126.1 in/3202 mm	61.4 in/1559 mm	52.8 in/1340 mm	9747 lb/4421 kg
max.	189.2 in/4805 mm	90.5 in/2298 mm	66.9 in/1699 mm	12922 lb/5861 kg

Note:
Do not use these dimensions for installation design. See general dimension drawings for detail.

