

C18 ACERT™

MARINE GENERATOR SET PACKAGE

315 ekW	372 bkW	1800 rpm
400 ekW	438 bkW	1800 rpm
525 ekW	574 bkW	1800 rpm

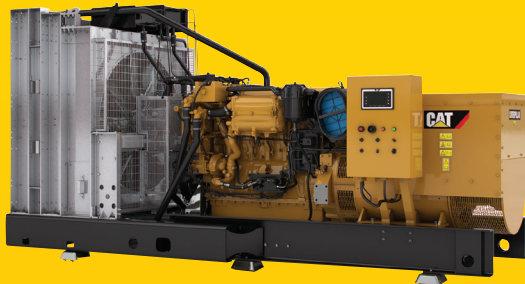


Image shown may not reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

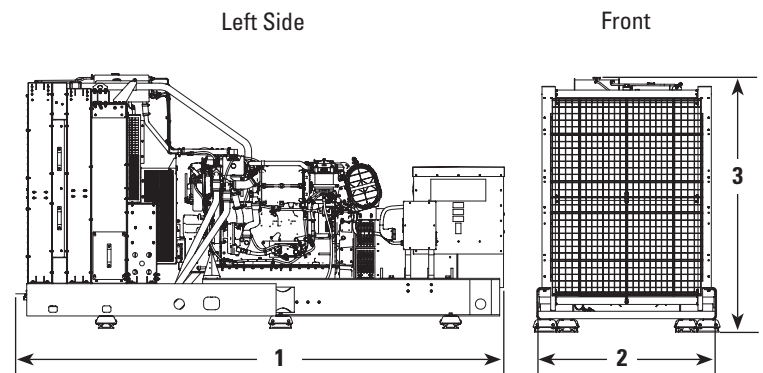
- U.S. EPA Tier 3/IMO II certified
- 18.0 L (1098 cu in) displacement
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Radiator cooled
- Refill capacity
 - Cooling system: 45 L (12 gal)
 - Lube oil system: 68 L (18 gal) deep pan
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- SCAC and JW shunt tanks with sight glass
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- 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
- Formed C-channel rails
- Vibration isolators
- SR4B permanent magnet 12-lead generator
- Digital voltage regulator
- Class H insulation, Class F temperature rise, IP23 protection

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	4619.0 mm	181.9 in
(2) Width	1698.7 mm	66.9 in
(3) Height	2408.3 mm	94.8 in
Weight, Net Dry (approx)	4406 kg	9713 lb

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

MARINE ENGINE PERFORMANCE

60 Hz

% Load	IMO II – EM0887-01					IMO II – EM0090-06				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	315	499	25.4	372	216.6	400	624	31.5	465	215.1
75	236	374	20.2	279	229.4	300	468	24.5	349	223.3
50	158	249	13.4	186	228.0	200	312	16.3	232	223.2
25	79	125	7.7	93	261.3	100	156	9.0	116	245.9
10	32	50	4.8	37	413.8	40	62	5.3	47	362.6

60 Hz

% Load	U.S. EPA Tier 3 & IMO II – EM0129-04					U.S. EPA Tier 3 & IMO II – EM0128-04				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	400	624	32.2	465	220.2	525	803	40.4	599	214.0
75	300	468	24.5	349	223.3	394	603	30.1	449	212.4
50	200	312	17.5	232	238.9	263	402	21.3	300	226.0
25	100	156	10.3	116	281.9	132	201	12.3	150	260.1
10	40	62	5.3	47	359.6	53	80	6.4	60	337.6

*ekW ratings are with fan

OPTIONAL ATTACHMENTS

- Air inlet adapter
- Cat alarm and protection system
- EMCP 3.3 control panel
- Battery charger 10 amp
- Charging alternator 24V 105 amp
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- EMCP 3.2 control panel
- Duplex oil filter – front service
- Manual sump pump
- Starting motors – electric and/or air
- Jacket water heaters
- Battery sets – 24V 950-1300 CCA
- Load sharing module (option for type approved module)
- Low voltage connections
- Extension terminal box
- Power take-offs
- Fumes disposal (closed system)

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C18 ACERT™

MARINE GENERATOR SET PACKAGE

275 ekW	301 bkW	1500 rpm
350 ekW	383 bkW	1500 rpm
400 ekW	438 bkW	1500 rpm
450 ekW	492 bkW	1500 rpm

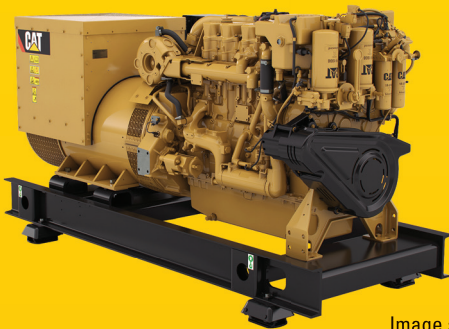


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may not reflect
actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

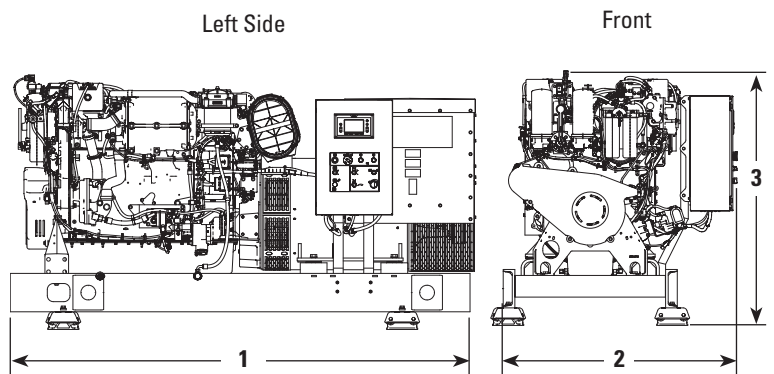
- IMO II certified
- 18.0 L (1098 cu in) displacement
- 50 hz 1500 rpm rated engine speed
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Heat exchanger or keel cooled
- Refill capacity
 - Cooling system: 45 L (12 gal)
 - Lube oil system: 68 L (18 gal) deep pan
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- Heat exchanger or keel cooling
- SCAC and JW shunt tanks with sight glass
- Auxiliary pump for heat exchanger cooling
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- 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
- Formed C-channel rails
- Vibration isolators
- SR4B permanent magnet 12-lead generator
- Digital voltage regulator
- Class H insulation, Class F temperature rise, IP23 protection

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	3040 mm	119.7 in
(2) Width	1547 mm	60.9 in
(3) Height	1684 mm	66.3 in
Weight, Net Dry (approx)	4406 kg	9713 lb

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

MARINE ENGINE PERFORMANCE

% Load	IMO II – EM0888-01					IMO II – EM0091-08				
	ekW	bhp	g/hr	bkW	g/bkW-hr	ekW	bhp	g/hr	bkW	g/bkW-hr
100	275	403	19.9	301	209.6	350	514	25.2	383	209.0
75	206	303	15.1	226	213.0	263	385	19.0	287	210.3
50	138	202	10.6	150	223.3	175	257	13.1	192	216.9
25	69	101	6.3	75	267.3	88	128	7.3	96	240.8
10	28	40	3.8	30	396.0	35	51	4.2	38	346.6

% Load	IMO II – EM0092-07					IMO II – EM0093-06				
	ekW	bhp	g/hr	bkW	g/bkW-hr	ekW	bhp	g/hr	bkW	g/bkW-hr
100	400	587	28.7	438	208.0	450	660	32.3	492	208.7
75	300	441	21.8	329	211.2	338	495	24.3	369	209.3
50	200	294	14.8	219	214.1	225	330	16.5	246	213.5
25	100	147	8.9	110	257.6	113	165	9.3	123	241.0
10	40	59	4.6	44	335.2	45	66	4.8	49	312.5

OPTIONAL ATTACHMENTS

- Air inlet adapter
- Cat alarm and protection system
- EMCP 3.3 control panel
- Battery charger 10 amp
- Charging alternator 24V 105 amp
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Duplex oil filter – front service
- Manual sump pump
- Starting motors – electric and/or air
- Jacket water heaters
- Battery sets – 24V 950-1300 CCA
- Load sharing module (option for type approved module)
- Low voltage connections
- Extension terminal box
- Power take-offs
- Fumes disposal (closed system)

C18 ACERT™

MARINE GENERATOR SET PACKAGE

425 ekW

465 bkW

1800 rpm



Image shown
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actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

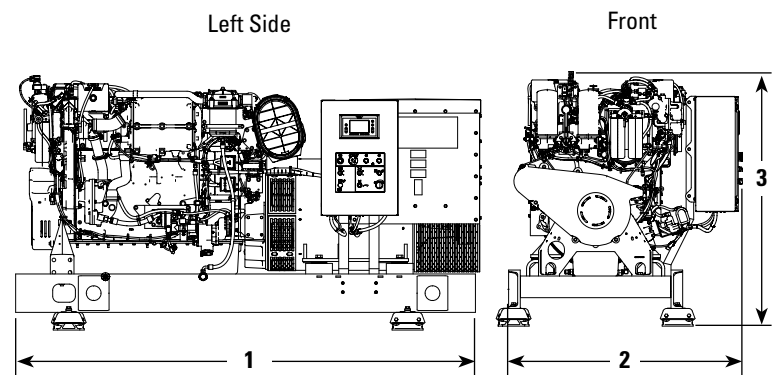
- IMO II compliant
- 18.0 L (1098 cu in) displacement
- 60 hz 1800 rpm rated engine speed
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Heat exchanger or keel cooled
- Refill capacity
 - Cooling system: 45 L (12 gal)
 - Lube oil system: 68 L (18 gal) deep pan
- 500-hour oil change interval deep pan
- Caterpillar Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- Heat exchanger or keel cooling
- SCAC and JW shunt tanks with sight glass
- Auxiliary pump for heat exchanger cooling
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- 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
- Formed C-channel rails
- Vibration isolators
- SR4B permanent magnet 12-lead generator
- Digital voltage regulator
- Class H insulation, Class F temperature rise, IP23 protection

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	3040 mm	119.7 in
(2) Width	1547 mm	60.9 in
(3) Height	1684 mm	66.3 in
Weight, Net Dry (approx)	4406 kg	9713 lb

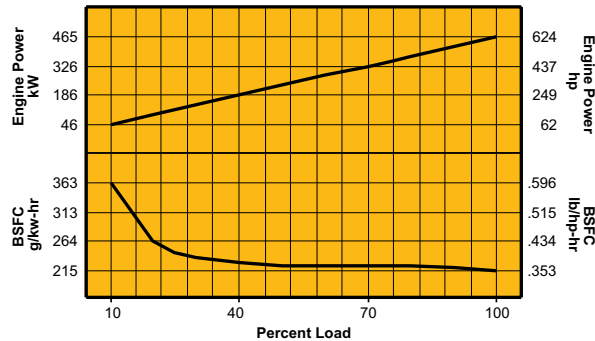
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MARINE ENGINE PERFORMANCE

Prime Rating – EM0090-00

% Load	ekW	bhp	g/hr	bkW	g/bkW-hr
100	425	624	31.5	465	215
75	319	468	24.5	349	223
50	213	312	16.4	233	223
25	106	156	9.0	116	246
10	43	62	5.3	47	363

465 bkW (425 ekW) @ 1800 rpm



OPTIONAL ATTACHMENTS

- Air inlet adapter
- Cat® alarm and protection system
- EMCP 3.3 control panel
- Battery charger 10 amp
- Charging alternator 24V 105 amp
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Duplex oil filter – front service
- Manual sump pump
- Starting motors – electric and/or air
- Jacket water heaters
- Battery sets – 24V 950-1300 CCA
- Load sharing module (option for type approved module)
- Low voltage connections
- Extension terminal box
- Power take-offs
- Fumes disposal (closed system)

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MARINE GENERATOR SET PACKAGE

340 ekW	372 bkW	1800 rpm
425 ekW	465 bkW	1800 rpm
550 ekW	599 bkW	1800 rpm

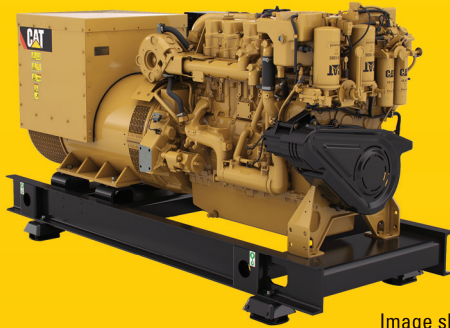


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SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

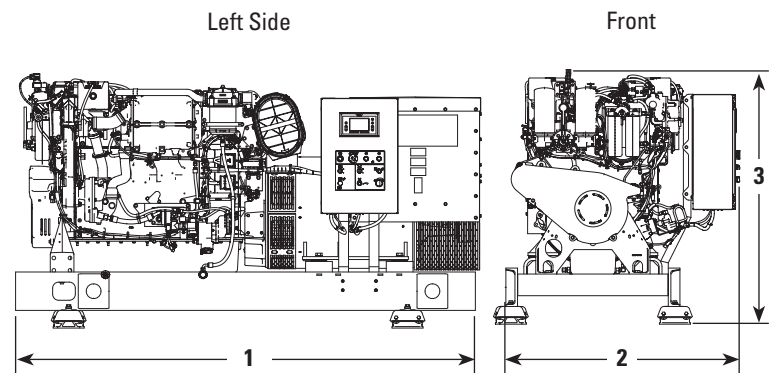
- U.S. EPA Tier 3/IMO II certified
- 18.0 L (1098 cu in) displacement
- 60 hz 1800 rpm rated engine speed
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Heat exchanger or keel cooled
- Refill capacity
 - Cooling system: 45 L (12 gal)
 - Lube oil system: 68 L (18 gal) deep pan
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- Heat exchanger or keel cooling
- SCAC and JW shunt tanks with sight glass
- Auxiliary pump for heat exchanger cooling
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- Oil filler, filter, and dipstick, front service
- MEUI™ fuel system
- Fuel filter, front service
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- Hybrid fuel lines
- Electronic fuel/air ratio control
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- Vibration isolators
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(1) Length	3040 mm	119.7 in
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(3) Height	1684 mm	66.3 in
Weight, Net Dry (approx)	4406 kg	9713 lb

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

MARINE ENGINE PERFORMANCE

IMO II – EM0887-01						IMO II – EM0090-06				
% Load	ekW	bhp	g/hr	bkW	g/bkW-hr	ekW	bhp	g/hr	bkW	g/bkW-hr
100	340	499	25.4	372	216.6	425	624	31.5	465	215.1
75	255	374	20.2	279	229.4	319	468	24.5	349	223.3
50	170	249	13.4	186	228.0	213	312	16.3	232	223.2
25	85	125	7.7	93	261.3	106	156	9.0	116	245.9
10	34.0	50	4.8	37	413.8	43	62	5.3	47	362.6

U.S. EPA T3 & IMO II – EM0128-04						U.S. EPA T3 & IMO II – EM0129-00				
% Load	ekW	bhp	g/hr	bkW	g/bkW-hr	ekW	bhp	g/hr	bkW	g/bkW-hr
100	550	803	40.4	599	214.0	425	624	32.2	465	220
75	413	603	30.1	449	212.4	319	468	24.5	349	223
50	275	402	21.3	300	226.0	213	312	17.5	232	239
25	138	201	12.3	150	260.1	106	156	10.3	116	282
10	55	80	6.4	60	337.6	43	62	5.3	47	360

OPTIONAL ATTACHMENTS

- Air inlet adapter
- Cat alarm and protection system
- EMCP 3.3 control panel
- Battery charger 10 amp
- Charging alternator 24V 105 amp
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Duplex oil filter – front service
- Manual sump pump
- Starting motors – electric and/or air
- Jacket water heaters
- Battery sets – 24V 950-1300 CCA
- Load sharing module (option for type approved module)
- Low voltage connections
- Extension terminal box
- Power take-offs
- Fumes disposal (closed system)

C18

MARINE GENERATOR SET

465 bkW (625 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 465 bkW (624 bhp) @ 1800 rpm				
	ekW	bhp	lb/bhp-hr	bkW	g/bkW-hr
100	430	624	0.354	465	215.1
90	387	562	0.360	419	219.1
80	344	499	0.366	372	222.7
70	301	437	0.367	326	223.4
60	258	374	0.366	279	222.8
50	215	311	0.367	232	223.2
40	172	249	0.373	186	227.0
30	129	187	0.388	139	236.3

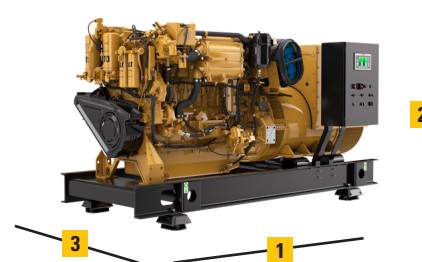
- ISO 3046/1 fluid consumption tolerance of +5%

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.



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

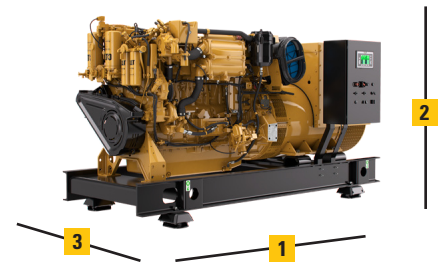
- ISO 3046/1 fluid consumption tolerance of +5%

Note:
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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.



C18 ACERT™

MARINE GENERATOR SET PACKAGE

280 ekW	301 bkW	1500 rpm
360 ekW	383 bkW	1500 rpm
410 ekW	438 bkW	1500 rpm
465 ekW	492 bkW	1500 rpm



Image shown may not reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

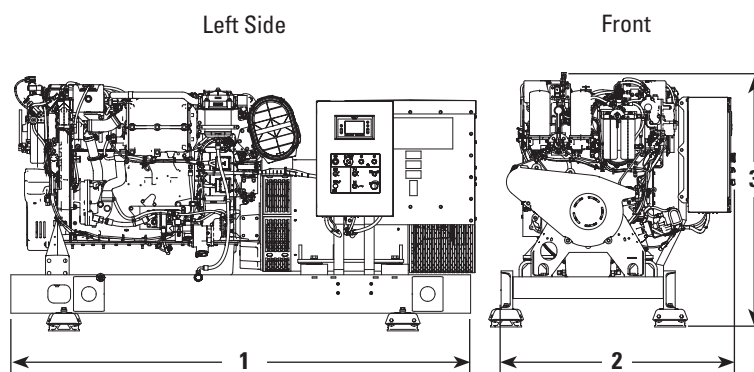
- IMO II certified
- 18.0 L (1098 cu in) displacement
- 50 hz 1500 rpm rated engine speed
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Heat exchanger or keel cooled
- Cooling system refill capacity
 - Jacket water: 43 L (11.4 gal) HEX, 41 L (10.8 gal) Keel
 - Aftercooler: 25 L (6.5 gal) HEX, 17 L (4.5 gal) Keel
- Lube system refill capacity
 - Deep pan: 68 L (18 gal)
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- SCAC and JW shunt tanks
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- 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
- Formed C-channel rails
- Vibration isolators
- SRMP permanent magnet 12-lead generator
- Digital voltage regulator
- Class H insulation, Class F temperature rise, IP23 protection

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	3038 mm	119.6 in
(2) Width	1411 mm	55.6 in
(3) Height	1648 mm	64.9 in
Weight, Net Dry (approx)	4421 kg	9747 lb

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

MARINE ENGINE PERFORMANCE

50 Hz

% Load	IMO II – EM1467-00					IMO II – EM1461-00				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	280	403	19.9	301	209.6	360	514	25.2	383	209.0
75	210	303	15.1	226	213.0	270	385	19.0	287	210.3
50	140	202	10.6	150	223.3	180	257	13.1	192	216.9
25	70	101	6.3	75	267.3	90	128	7.3	96	240.8
10	28	40	3.8	30	396.0	36	51	4.2	38	346.6

50 Hz

% Load	IMO II – EM1462-00					IMO II – EM1463-00				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	410	587	28.7	438	208.0	465	660	32.3	492	208.7
75	308	441	21.8	329	211.2	349	495	24.3	369	209.3
50	205	294	14.8	219	214.1	233	330	16.5	246	213.5
25	103	147	8.9	110	257.6	116	165	9.3	123	241.0
10	41	59	4.6	44	335.2	47	66	4.8	49	312.5

*ekW ratings are with fan

OPTIONAL ATTACHMENTS

- Cat alarm and protection system
- EMCP 4.2 control panel
- MGCP III B control panel
- Generator protection – IP44
- Generator service side – LH, RH
- Generator terminal box extension
- Load sharing module (option for type approved module)
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Air inlet adapter
- Fumes disposal (closed system)
- Battery charger 10 amp
- Battery sets – 24V 950-1300 CCA
- Charging alternator 24V 105 amp
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Spare pump kits
- Duplex oil filter – front service
- Manual sump pump
- Power take-offs
- Starting motors – electric and/or air
- Jacket water heaters

CAT, CATERPILLAR, their respective logos, ACERT, MEUI, “Caterpillar Yellow”, the “Power Edge” trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

C18 ACERT™

MARINE GENERATOR SET PACKAGE

345 ekW 372 bkW 1800 rpm
430 ekW 465 bkW 1800 rpm



Image shown may not reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

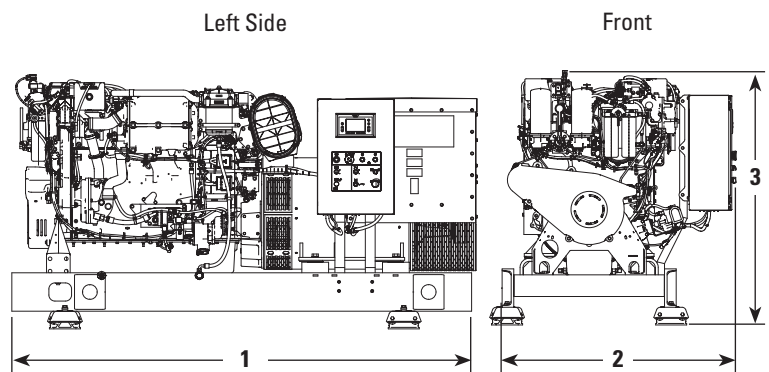
- IMO II certified
- 18.0 L (1098 cu in) displacement
- 60 hz 1800 rpm rated engine speed
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Heat exchanger or keel cooled
- Cooling system refill capacity
 - Jacket water: 43 L (11.4 gal) HEX, 41 L (10.8 gal) Keel
 - Aftercooler: 25 L (6.5 gal) HEX, 17 L (4.5 gal) Keel
- Lube system refill capacity
 - Deep pan: 68 L (18 gal)
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- SCAC and JW shunt tanks
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- 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
- Formed C-channel rails
- Vibration isolators
- SRMP permanent magnet 12-lead generator
- Digital voltage regulator
- Class H insulation, Class F temperature rise, IP23 protection

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	3038 mm	119.6 in
(2) Width	1411 mm	55.6 in
(3) Height	1648 mm	64.9 in
Weight, Net Dry (approx)	4421 kg	9747 lb

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

MARINE ENGINE PERFORMANCE

60 Hz

% Load	IMO II – EM1466-00					IMO II – EM1460-00				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	345	499	25.4	372	216.6	430	624	31.5	465	215.1
75	259	374	20.2	279	229.4	323	468	24.5	349	223.3
50	173	249	13.4	186	228.0	215	312	16.3	232	223.2
25	86	125	7.7	93	261.3	108	156	9.0	116	245.9
10	35	50	4.8	37	413.8	43	62	5.3	47	362.6

*ekW ratings are with fan

OPTIONAL ATTACHMENTS

- Cat alarm and protection system
- EMCP 4.2 control panel
- MGCP III B control panel
- Generator protection – IP44
- Generator service side – LH, RH
- Generator terminal box extension
- Load sharing module (option for type approved module)
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Air inlet adapter
- Fumes disposal (closed system)
- Battery charger 10 amp
- Battery sets – 24V 950-1300 CCA
- Charging alternator 24V 105 amp
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Spare pump kits
- Duplex oil filter – front service
- Manual sump pump
- Power take-offs
- Starting motors – electric and/or air
- Jacket water heaters

C18 ACERT™

MARINE GENERATOR SET PACKAGE

430 ekW 465 bkW 1800 rpm
565 ekW 599 bkW 1800 rpm



Image shown may not reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

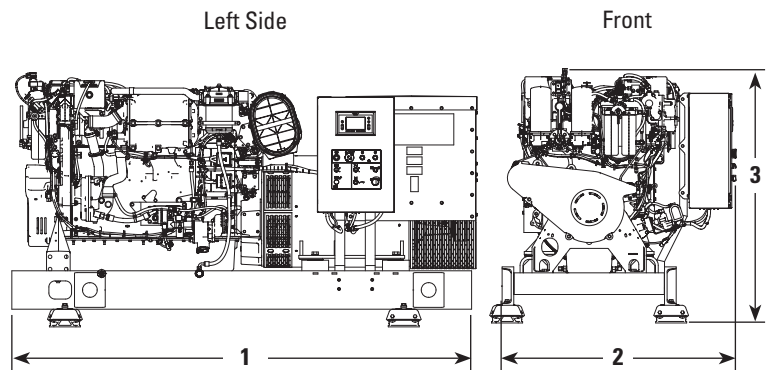
- U.S. EPA Tier 3/IMO II certified
- 18.0 L (1098 cu in) displacement
- 60 hz 1800 rpm rated engine speed
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Heat exchanger or keel cooled
- Cooling system refill capacity
 - Jacket water: 43 L (11.4 gal) HEX, 41 L (10.8 gal) Keel
 - Aftercooler: 25 L (6.5 gal) HEX, 17 L (4.5 gal) Keel
- Lube system refill capacity
 - Deep pan: 68 L (18 gal)
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- SCAC and JW shunt tanks
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- 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
- Formed C-channel rails
- Vibration isolators
- SRMP permanent magnet 12-lead generator
- Digital voltage regulator
- Class H insulation, Class F temperature rise, IP23 protection

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	3038 mm	119.6 in
(2) Width	1411 mm	55.6 in
(3) Height	1648 mm	64.9 in
Weight, Net Dry (approx)	4421 kg	9747 lb

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

MARINE ENGINE PERFORMANCE

60 Hz

U.S. EPA Tier 3 & IMO II – EM1464-00

U.S. EPA Tier 3 & IMO II – EM1465-00

% Load	U.S. EPA Tier 3 & IMO II – EM1464-00					U.S. EPA Tier 3 & IMO II – EM1465-00				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	430	624	32.2	465	220.2	565	803	40.4	599	214.0
75	323	468	24.5	349	223.3	424	603	30.1	449	212.4
50	215	312	17.5	232	238.9	283	402	21.3	300	226.0
25	108	156	10.3	116	281.9	141	201	12.3	150	260.1
10	43	62	5.3	47	359.6	57	80	6.4	60	337.6

*ekW ratings are with fan

OPTIONAL ATTACHMENTS

- Cat alarm and protection system
- EMCP 4.2 control panel
- MGCP III B control panel
- Generator protection – IP44
- Generator service side – LH, RH
- Generator terminal box extension
- Load sharing module (option for type approved module)
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Air inlet adapter
- Fumes disposal (closed system)
- Battery charger 10 amp
- Battery sets – 24V 950-1300 CCA
- Charging alternator 24V 105 amp
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Spare pump kits
- Duplex oil filter – front service
- Manual sump pump
- Power take-offs
- Starting motors – electric and/or air
- Jacket water heaters

C18 ACERT™

MARINE GENERATOR SET PACKAGE

260 ekW	301 bkW	1500 rpm
335 ekW	383 bkW	1500 rpm
390 ekW	438 bkW	1500 rpm
445 ekW	492 bkW	1500 rpm

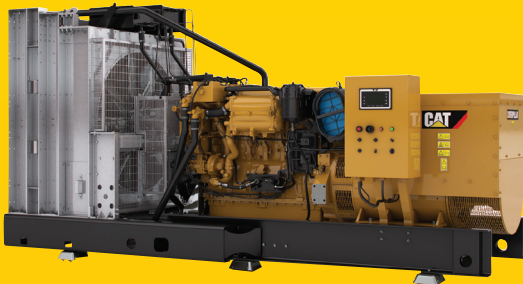


Image shown may not reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

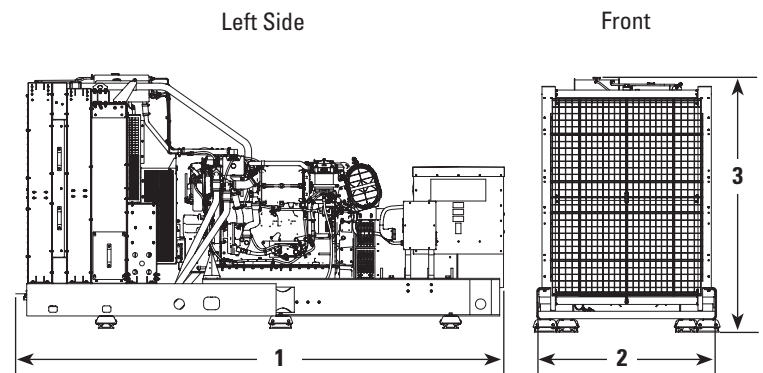
- IMO II certified
- 18.0 L (1098 cu in) displacement
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Radiator cooled
- Cooling system refill capacity
 - Jacket water: 123 L (32.5 gal)
 - Aftercooler: 83 L (21.9 gal)
- Lube system refill capacity
 - Deep pan: 68 L (18 gal)
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- SCAC and JW shunt tanks
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- 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
- Formed C-channel rails
- Vibration isolators
- SRMP permanent magnet 12-lead generator
- Digital voltage regulator
- Class H insulation, Class F temperature rise, IP23 protection

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	4741 mm	186.6 in
(2) Width	1699 mm	66.9 in
(3) Height	2408 mm	94.8 in
Weight, Net Dry (approx)	6076 kg	13,396 lb

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

MARINE ENGINE PERFORMANCE

50 Hz

% Load	IMO II – EM1467-00					IMO II – EM1461-00				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	260	403	19.9	301	209.6	335	514	25.2	383	209.0
75	195	303	15.1	226	213.0	251	385	19.0	287	210.3
50	130	202	10.6	150	223.3	168	257	13.1	192	216.9
25	65	101	6.3	75	267.3	84	128	7.3	96	240.8
10	26	40	3.8	30	396.0	34	51	4.2	38	346.6

50 Hz

% Load	IMO II – EM1462-00					IMO II – EM1463-00				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	390	587	28.7	438	208.0	445	660	32.3	492	208.7
75	293	441	21.8	329	211.2	334	495	24.3	369	209.3
50	195	294	14.8	219	214.1	223	330	16.5	246	213.5
25	98	147	8.9	110	257.6	111	165	9.3	123	241.0
10	39	59	4.6	44	335.2	45	66	4.8	49	312.5

*ekW ratings are with fan

OPTIONAL ATTACHMENTS

- Cat alarm and protection system
- EMCP 4.2 control panel
- MGCP III B control panel
- Generator protection – IP44
- Generator service side – LH, RH
- Generator terminal box extension
- Load sharing module (option for type approved module)
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Air inlet adapter
- Fumes disposal (closed system)
- Battery charger 10 amp
- Battery sets – 24V 950-1300 CCA
- Charging alternator 24V 105 amp
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Spare pump kits
- Duplex oil filter – front service
- Manual sump pump
- Power take-offs
- Starting motors – electric and/or air
- Jacket water heaters

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C18 ACERT™

MARINE GENERATOR SET PACKAGE

310 ekW

372 bkW

1800 rpm

395 ekW

465 bkW

1800 rpm

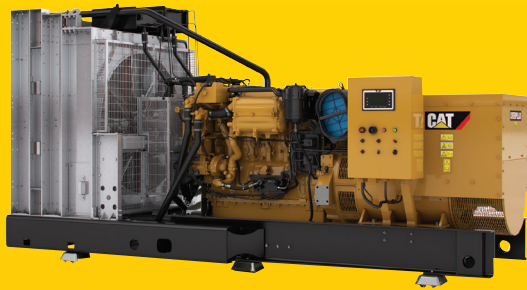


Image shown may not
reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

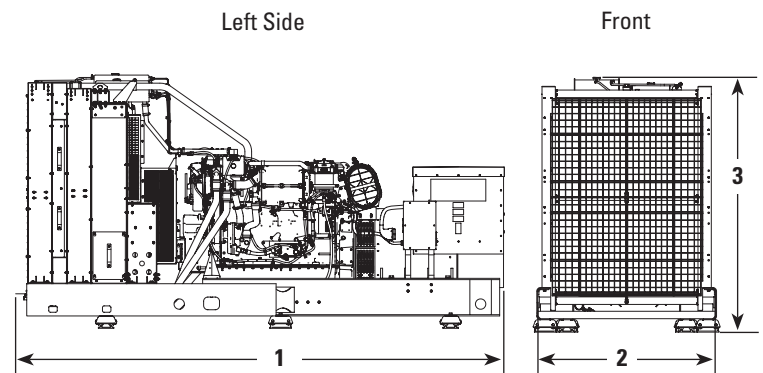
- IMO II certified
- 18.0 L (1098 cu in) displacement
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Radiator cooled
- Cooling system refill capacity
 - Jacket water: 123 L (32.5 gal)
 - Aftercooler: 83 L (21.9 gal)
- Lube system refill capacity
 - Deep pan: 68 L (18 gal)
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
- SCAC and JW shunt tanks
- SCAC and jacket water pumps
- Watercooled exhaust manifold and turbocharger
- Round flanged exhaust outlet
- Center sump oil pan, deep
- 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
- Formed C-channel rails
- Vibration isolators
- SRMP permanent magnet 12-lead generator
- Digital voltage regulator
- Class H insulation, Class F temperature rise, IP23 protection

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	4741 mm	186.6 in
(2) Width	1699 mm	66.9 in
(3) Height	2408 mm	94.8 in
Weight, Net Dry (approx)	6076 kg	13,396 lb

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

MARINE ENGINE PERFORMANCE

60 Hz

IMO II – EM1466-00

IMO II – EM1460-00

% Load	IMO II – EM1466-00					IMO II – EM1460-00				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	310	499	25.4	372	216.6	395	624	31.5	465	215.1
75	233	374	20.2	279	229.4	296	468	24.5	349	223.3
50	155	249	13.4	186	228.0	198	312	16.3	232	223.2
25	78	125	7.7	93	261.3	99	156	9.0	116	245.9
10	31	50	4.8	37	413.8	40	62	5.3	47	362.6

*ekW ratings are with fan

OPTIONAL ATTACHMENTS

- Cat alarm and protection system
- EMCP 4.2 control panel
- MGCP III B control panel
- Generator protection – IP44
- Generator service side – LH, RH
- Generator terminal box extension
- Load sharing module (option for type approved module)
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Air inlet adapter
- Fumes disposal (closed system)
- Battery charger 10 amp
- Battery sets – 24V 950-1300 CCA
- Charging alternator 24V 105 amp
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Spare pump kits
- Duplex oil filter – front service
- Manual sump pump
- Power take-offs
- Starting motors – electric and/or air
- Jacket water heaters

C18 ACERT™

MARINE GENERATOR SET PACKAGE

395 ekW 465 bkW 1800 rpm
530 ekW 599 bkW 1800 rpm

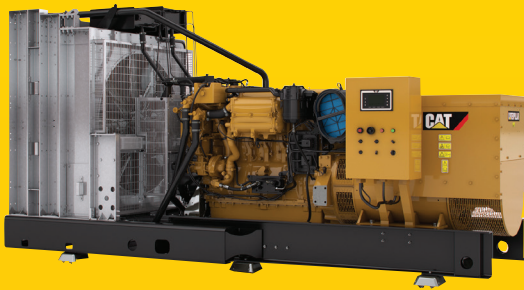


Image shown may not reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

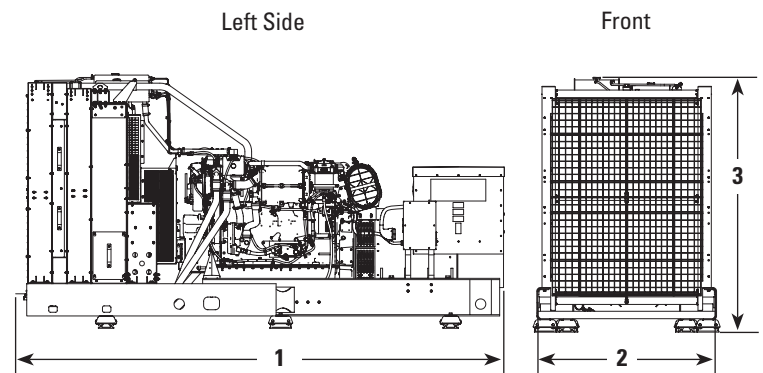
- U.S. EPA Tier 3/IMO II certified
- 18.0 L (1098 cu in) displacement
- 145 mm (5.7 in) bore x 183 mm (7.2 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Radiator cooled
- Cooling system refill capacity
 - Jacket water: 123 L (32.5 gal)
 - Aftercooler: 83 L (21.9 gal)
- Lube system refill capacity
 - Deep pan: 68 L (18 gal)
- 500-hour oil change interval deep pan
- Cat® Diesel Engine Oil 10W30 or 15W40
- SAE No. 0 flywheel housing with SAE No. 18 flywheel (136 teeth)
- Counterclockwise rotation from flywheel end



STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooler (SCAC)
- Heavy-duty inlet air filter
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- Fuel filter, front service
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- Hybrid fuel lines
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- SRMP permanent magnet 12-lead generator
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DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	4741 mm	186.6 in
(2) Width	1699 mm	66.9 in
(3) Height	2408 mm	94.8 in
Weight, Net Dry (approx)	6076 kg	13,396 lb

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

MARINE ENGINE PERFORMANCE

60 Hz

U.S. EPA Tier 3 & IMO II – EM1464-00

U.S. EPA Tier 3 & IMO II – EM1465-00

% Load	U.S. EPA Tier 3 & IMO II – EM1464-00					U.S. EPA Tier 3 & IMO II – EM1465-00				
	ekW*	bhp	g/hr	bkW	g/bkW-hr	ekW*	bhp	g/hr	bkW	g/bkW-hr
100	395	624	32.2	465	220.2	530	803	40.4	599	214.0
75	296	468	24.5	349	223.3	398	603	30.1	449	212.4
50	198	312	17.5	232	238.9	265	402	21.3	300	226.0
25	99	156	10.3	116	281.9	133	201	12.3	150	260.1
10	40	62	5.3	47	359.6	53	80	6.4	60	337.6

*ekW ratings are with fan

OPTIONAL ATTACHMENTS

- Cat alarm and protection system
- EMCP 4.2 control panel
- MGCP III B control panel
- Generator protection – IP44
- Generator service side – LH, RH
- Generator terminal box extension
- Load sharing module (option for type approved module)
- Exhaust elbows, dry or watercooled
- Exhaust flange and flexible fitting
- Mufflers (option for spark arresting)
- Air inlet adapter
- Fumes disposal (closed system)
- Battery charger 10 amp
- Battery sets – 24V 950-1300 CCA
- Charging alternator 24V 105 amp
- Duplex fuel filter – front service
- Fuel cooler
- Primary fuel/water separator
- Spare pump kits
- Duplex oil filter – front service
- Manual sump pump
- Power take-offs
- Starting motors – electric and/or air
- Jacket water heaters