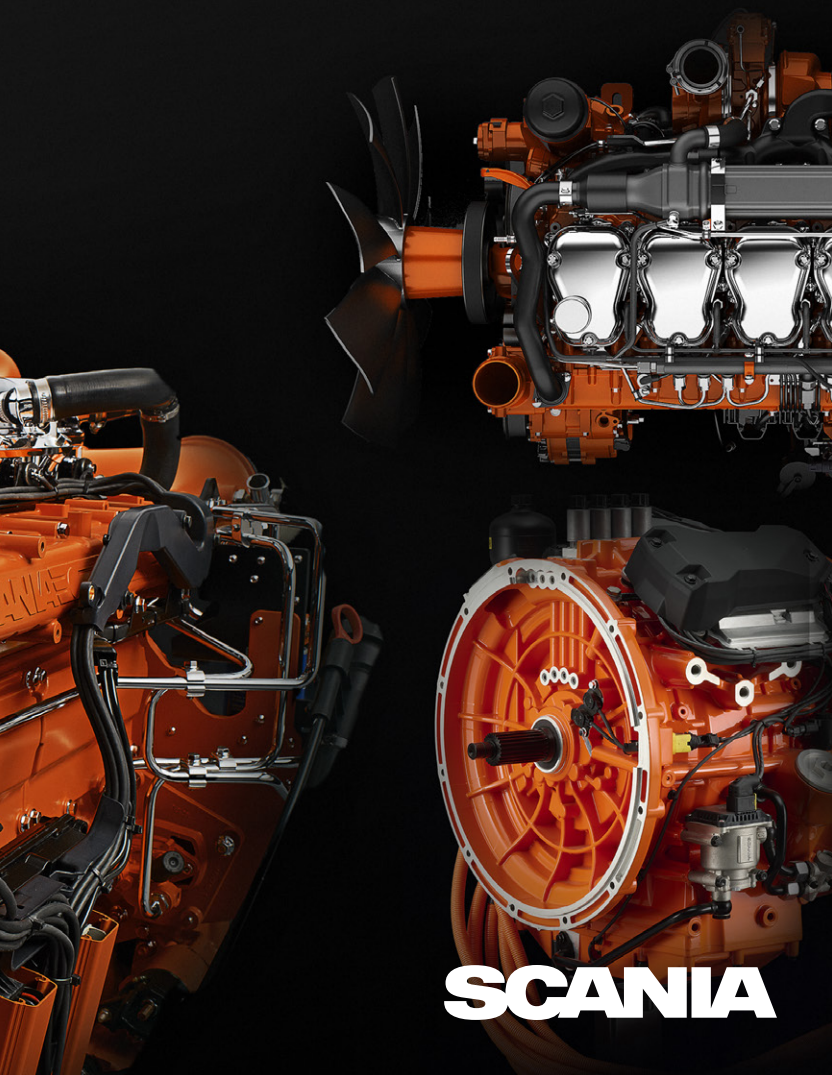


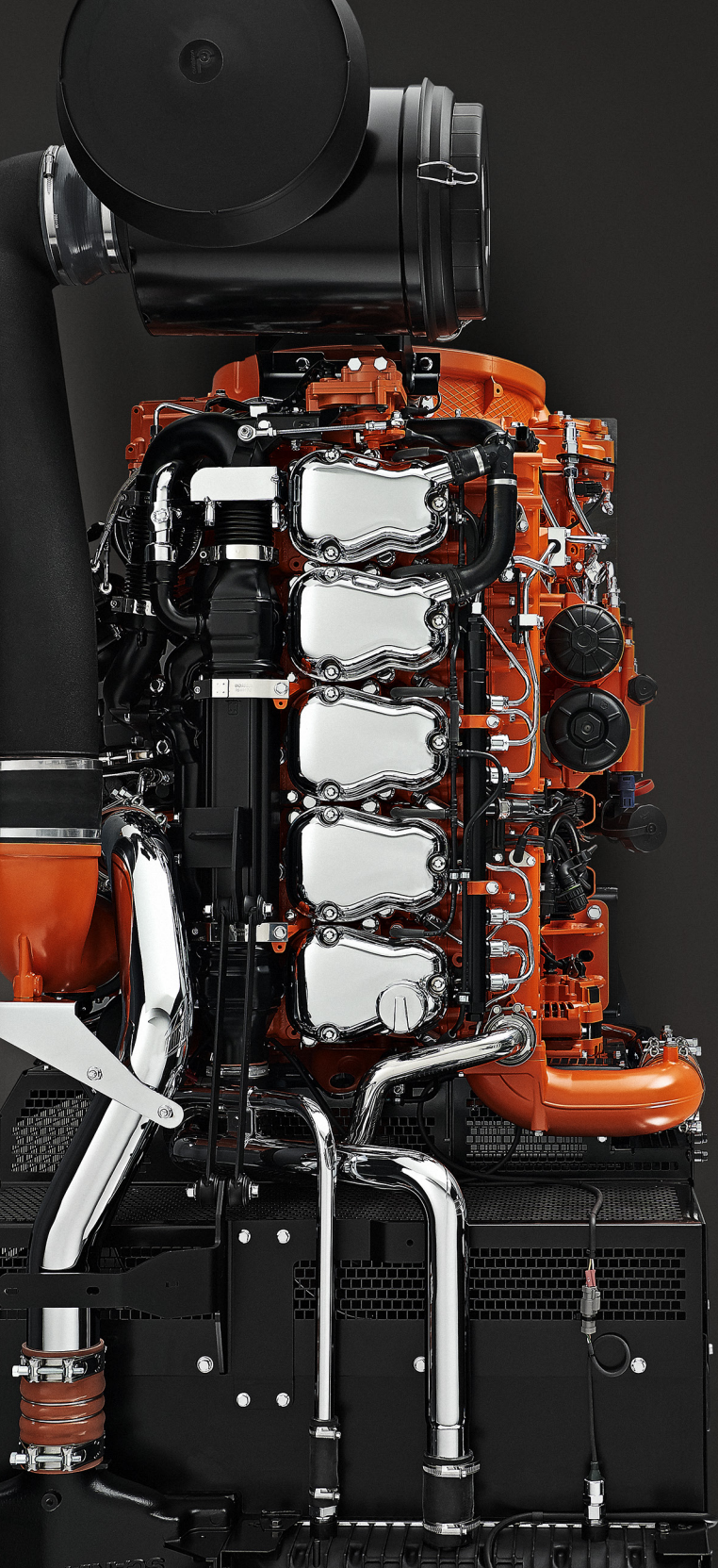


SCANIA POWER SOLUTIONS PRODUCT RANGE

For marine, industrial, and power
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MARINE ENGINE RANGE



Engine data 9-series

Marine propulsion engines

EU Stage IIIA and IMO Tier II compliant engines
Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DI09 070M	162	220	–	–
DI09 070M	184	250	–	–
DI09 070M	221	300	–	–
DI09 070M	257	350	–	–
DI09 072M	–	–	221	300
DI09 072M	–	–	257	350
DI09 072M	–	–	294	400

Dimensions and weights of marine propulsion 9-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DI09 070/072M with heat exchanger	1,419 (55.9)	975 (38.4)	1,148 (45.2)	approx. 1,150 (2,535)
DI09 070/072M with keel cooling double circuit	1,419 (55.9)	977 (38.5)	1,148 (45.2)	approx. 1,044 (2,302)

** Excluding oil and coolant.

Marine auxiliary engines

EU Stage IIIA* and IMO Tier II compliant engines
Engines with heat exchanger / with keel cooling / without heat exchanger and water-cooled CAC (emergency/harbour)

Engine type	1,500 rpm (50 Hz) PRP	1,800 rpm (60 Hz) PRP
	kW	kW
DI09 074M	199	199
DI09 074M	217	217
DI09 074M	269	269
DI09 074M	269	323

* EU Stage IIIA only applies for propulsion engines with E2 test cycle.

Dimensions and weights of marine auxiliary 9-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DI09 074M with heat exchanger	1,419 (55.9)	975 (38.4)	1,148 (45.2)	approx. 1,150 (2,535)
DI09 074M with keel cooling double circuit	1,419 (55.9)	977 (38.5)	1,148 (45.2)	approx. 1,044 (2,302)
DI09 074M without heat exchanger and water-cooled CAC (emergency/harbour)	1,426 (56.1)	979 (38.5)	1,153 (45.4)	approx. 1,032 (2,275)

** Excluding oil and coolant.

Engine data 13-series

Marine propulsion engines

EU RCD Stage II and US Tier 3 compliant engines for pleasure craft

Engines with heat exchanger

Engine type	Pleasure craft 2,300 rpm	
	kW	hp
DI13 094M	515	700
DI13 094M	552	750
DI13 094M	588	800
DI13 304M	662	900

IMO Tier III compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DI13 095M	257	350	-	-
DI13 095M	280	380	-	-
DI13 095M	294	400	-	-
DI13 095M	331	450	-	-
DI13 095M	368	500	-	-
DI13 096M	-	-	405	550
DI13 096M	-	-	441	600

EU Stage IIIA, US Tier 2 and IMO Tier II compliant engines

Engines with heat exchanger

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 070M	294	400	-	-	-	-	-	-
DI13 070M	331	450	-	-	-	-	-	-
DI13 070M	368	500	-	-	-	-	-	-
DI13 070M	405	550	-	-	-	-	-	-
DI13 078M	-	-	280	380	-	-	-	-
DI13 078M	-	-	331	450	-	-	-	-
DI13 078M	-	-	368	500	-	-	-	-
DI13 078M	-	-	405	550	-	-	-	-
DI13 072M*	-	-	441	600	-	-	-	-
DI13 072M*	-	-	478	650	-	-	-	-
DI13 072M	-	-	-	-	478	650	-	-
DI13 077M	-	-	-	-	515	700	-	-
DI13 077M	-	-	-	-	-	-	551	750

* 2,300 rpm

Engines with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 071M	294	400	-	-	-	-	-	-
DI13 071M	331	450	-	-	-	-	-	-
DI13 071M	368	500	-	-	-	-	-	-
DI13 073M	-	-	280	380	-	-	-	-
DI13 073M	-	-	331	450	-	-	-	-
DI13 073M	-	-	368	500	-	-	-	-
DI13 073M	-	-	405	550	-	-	-	-

EU Stage IIIA, IMO Tier II and US Tier 3 compliant engines

Engines with heat exchanger

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 087M	-	-	478	650	-	-	-	-
DI13 087M	-	-	515	700	-	-	-	-
DI13 087M	-	-	-	-	515	700	-	-
DI13 087M	-	-	-	-	552	751	-	-
DI13 087M	-	-	-	-	588	800	-	-

EU Stage IIIA, IMO Tier II and US Tier 3 compliant engines

Engines with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 088M	-	-	478	650	-	-	-	-
DI13 088M	-	-	-	-	515	700	-	-
DI13 088M	-	-	-	-	552	751	-	-

EU Stage IIIA and IMO Tier II compliant engines

Engines with heat exchanger

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 076M	-	-	515	700	-	-	-	-
DI13 076M	-	-	-	-	607	825	-	-
DI13 076M	-	-	-	-	-	-	643	875

US Tier 3 and IMO Tier II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 080M	184	250	-	-	-	-	-	-
DI13 080M	221	300	-	-	-	-	-	-

US Tier 3, IMO Tier II and China Marine Phase II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 080M	257	350	–	–	–	–	–	–
DI13 080M	294	400	–	–	–	–	–	–
DI13 081M	331	450	–	–	–	–	–	–
DI13 081M	368	500	–	–	–	–	–	–

US Tier 3 and China Marine Phase II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 082M	–	–	331	450	–	–	–	–
DI13 082M	–	–	368	500	–	–	–	–
DI13 083M	–	–	405	550	–	–	–	–
DI13 083M	–	–	441	600	–	–	–	–
DI13 086M*	–	–	441	600	–	–	–	–
DI13 086M*	–	–	–	–	496	675	–	–

* Only available with heat exchanger. 2,300 rpm.

US Tier 3 compliant engines

Engines with heat exchanger / with keel cooling

Engine type	IFN 2,300 rpm	
	kW	hp
DI13 085M	478	650

IMO Tier II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,600 rpm		ICFN 1,800 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 080M	–	–	162	220	–	–	–	–
DI13 080M	221	300	–	–	–	–	–	–
DI13 080M	–	–	249	338	–	–	–	–
DI13 081M	–	–	162	220	–	–	–	–

IMO Tier III and EU Stage IIIA compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI13 092M	257	350	–	–	–	–	–	–
DI13 092M	294	400	–	–	–	–	–	–
DI13 092M	331	450	–	–	–	–	–	–
DI13 092M	368	500	–	–	–	–	–	–
DI13 092M	405	550	–	–	–	–	–	–

Dimensions and weights of marine propulsion 13-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DI13 070/072/078/080/081/ 082/083/086/092/095/096M with heat exchanger	1,529 (60.2)	994 (39.1)	1,174 (46.2)	approx. 1,285 (2,833)
DI13 077M with heat exchanger	1,529 (60.2)	994 (39.1)	1,227 (48.3)	approx. 1,285 (2,833)
DI13 080/081/082M/ 092/095/096M with keel cooling, double circuit	1,503 (59.2)	977 (38.5)	1,174 (46.2)	approx. 1,180 (2,602)
DI13 071/073M with keel cooling, single circuit	1,503 (59.2)	956 (37.6)	1,174 (46.2)	approx. 1,180 (2,602)
DI13 076/087M/094/304M with heat exchanger	1,529 (60.2)	994 (39.1)	1,218 (47.9)	approx. 1,285 (2,832)
DI13 088M with keel cooling	1,536 (60.5)	968 (38.1)	1,218 (47.9)	approx. 1,180 (2,601)

** Excluding oil and coolant.

Marine auxiliary engines

EU Stage IIIA*, US Tier 2 and IMO Tier II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	1,500 rpm PRP	1,800 rpm PRP
	kW	kW
DI13 074/075M	285	285
DI13 074/075M	323	323
DI13 074/075M	323	376
DI13 074/075M	376	426
DI13 074/075M	426	426

* EU Stage IIIA only applies for propulsion engines with E2 test cycle.

Engines without heat exchanger and water-cooled CAC
(emergency/harbour)

Engine type	1,500 rpm PRP	1,800 rpm PRP
	kW	kW
DI13 075M	323	374
DI13 075M	374	426
DI13 075M	426	426

* EU Stage IIIA only applies for propulsion engines with E2 test cycle.

US Tier 3 compliant engines

Engines with heat exchanger / with keel cooling

Engine type	1,500 rpm PRP	1,800 rpm PRP
	kW	kW
DI13 084M	–	269
DI13 084M	–	323
DI13 084M	–	376
DI13 084M	–	426

IMO Tier III and IMO Tier II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	1,500 rpm PRP	1,800 rpm PRP
	kW	kW
DI13 091M	269	285
DI13 091M	285	323
DI13 091M	323	374
DI13 091M	374	426
DI13 091M	426	426

Dimensions and weights of marine auxiliary 13-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DI13 074/084M/089/091M with heat exchanger	1,529 (60.2)	994 (39.1)	1,174 (46.2)	approx. 1,285 (2,833)
DI13 084/089M with keel cooling, double circuit	1,503 (59.2)	977 (38.5)	1,174 (46.2)	approx. 1,180 (2,602)
DI13 075M with keel cooling, single circuit	1,503 (59.2)	956 (37.6)	1,174 (46.2)	approx. 1,180 (2,602)
DI13 075M without heat exchanger and water-cooled CAC (emergency/harbour)	1,510 (59.5)	937 (36.9)	1,170 (46.1)	approx. 1,123 (2,476)

** Excluding oil and coolant.

Engine data 16-series

Marine propulsion engines

EU RCD Stage II and US Tier 3 compliant engines for pleasure craft

Engines with heat exchanger

Engine type	Pleasure craft 2,300 rpm	
	kW	hp
DI16 304M	736	1,000
DI16 304M	809	1,100
DI16 304M	846	1,150

IMO Tier III compliant engines*

Engines with heat exchanger

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		IFN 2,300 rpm		Patrol long 2,300 rpm		Patrol short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp
DI16 070M	405	550	–	–	–	–	–	–	–	–
DI16 070M	460	625	–	–	–	–	–	–	–	–
DI16 070M	515	700	–	–	–	–	–	–	–	–
DI16 070M	552	750	–	–	–	–	–	–	–	–
DI16 072M	–	–	477	650	–	–	–	–	–	–
DI16 072M	–	–	515	700	–	–	–	–	–	–
DI16 072M	–	–	552	750	–	–	–	–	–	–
DI16 072M	–	–	588	800	–	–	588	800	–	–
DI16 072M	–	–	–	–	–	–	625	850	–	–
DI16 072M	–	–	–	–	–	–	662	900	662	900
DI16 076M	–	–	–	–	662	900	–	–	–	–
DI16 076M	–	–	–	–	–	–	736	1,000	–	–
DI16 076M	–	–	–	–	–	–	809	1,100	–	–
DI16 076M	–	–	–	–	–	–	–	–	846	1,150

* IMO Tier III compliant when using aftertreatment system from external supplier.

Engines with keel cooling

Engine type	ICFN 1,800 rpm	
	kW	hp
DI16 079M	405	550
DI16 079M	460	625
DI16 079M	515	700
DI16 079M	552	750

EU Stage IIIA, US Tier 2 and IMO Tier II compliant engines

Engines with heat exchanger

Engine type	ICFN 1,800 rpm		IFN 2,300 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI16 070M	405	550	–	–	–	–	–	–
DI16 070M	460	625	–	–	–	–	–	–
DI16 070M	515	700	–	–	–	–	–	–
DI16 070M	552	750	–	–	–	–	–	–
DI16 072M	–	–	–	–	588	800	–	–
DI16 072M	–	–	–	–	625	850	–	–
DI16 072M	–	–	–	–	662	900	662	900
DI16 077M*	–	–	662	900	662	900	–	–
DI16 077M*	–	–	–	–	–	–	736	1,000

* Note: Optimised for water jet applications. Not intended for conventional propeller use.

Engines with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI16 071M	405	550	–	–	–	–	–	–
DI16 071M	460	625	–	–	–	–	–	–

EU Stage IIIA and IMO Tier II compliant engines

Engines with heat exchanger

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol long 2,300 rpm		Patrol short 2,300 rpm		Pleasure cr 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp	kW	hp
DI16 072M	–	–	477	650	–	–	–	–	–	–
DI16 072M	–	–	515	700	–	–	–	–	–	–
DI16 072M	–	–	552	750	–	–	–	–	–	–
DI16 072M	–	–	588	800	–	–	–	–	–	–
DI16 076M	–	–	662	900	–	–	–	–	–	–
DI16 076M	–	–	–	–	736	1,000	–	–	–	–
DI16 076M	–	–	–	–	809	1,100	–	–	–	–
DI16 076M	–	–	–	–	–	–	846	1,150	–	–
DI16 093M	–	–	–	–	–	–	–	–	882	1,200

Engines with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI16 079M	405	550	–	–	–	–	–	–
DI16 079M	460	625	–	–	–	–	–	–
DI16 079M	515	700	–	–	–	–	–	–
DI16 079M	552	750	–	–	–	–	–	–

US Tier 3, IMO Tier II and China Marine Phase II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI16 080M	405	550	–	–	–	–	–	–
DI16 080M	460	625	–	–	–	–	–	–
DI16 080M	515	700	–	–	–	–	–	–

US Tier 3 and China Marine Phase II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI16 081M	–	–	477	650	–	–	–	–
DI16 081M	–	–	515	700	–	–	–	–
DI16 082M	–	–	588	800	–	–	–	–
DI16 083M*	–	–	–	–	588	800	–	–

* Only available with heat exchanger

China Marine Phase II compliant engines

Engines with heat exchanger

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI16 083M	–	–	–	–	–	–	625	850
DI16 083M	–	–	–	–	–	–	662	900

IMO Tier II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	ICFN 1,800 rpm		IFN 2,100 rpm		Patrol craft long 2,300 rpm		Patrol craft short 2,300 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DI16 080M	221	300	–	–	–	–	–	–
DI16 080M	257	350	–	–	–	–	–	–
DI16 080M	294	400	–	–	–	–	–	–
DI16 080M	331	450	–	–	–	–	–	–

Dimensions and weights of marine propulsion 16-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DI16 72/077/080/081/082M/083M with heat exchanger	1,551 (61.1)	1,251 (49.3)	1,214 (47.8)	approx. 1,670 (3,682)
DI16 071M with keel cooling, single circuit	1,533 (60.1)	1,251 (49.3)	1,214 (47.8)	approx. 1,600 (3,527)
DI16 079/080/081/082M with keel cooling, double circuit	1,577 (62.1)	1,251 (49.3)	1,214 (47.8)	approx. 1,600 (3,527)
DI16 076/093/304M with heat exchanger	1,574 (62)	1,270 (50)	1,214 (47.8)	approx. 1,660 (3,657)
DI16 076M with heat exchanger, classified engine	1,609 (63)	1,270 (50)	1,234 (49)	approx. 1,660 (3,657)

** Excluding oil and coolant.

Marine auxiliary engines

EU Stage IIIA*, US Tier 2 and IMO Tier II compliant engines

Engines with heat exchanger

Engine type	1,500 rpm PRP	1,800 rpm PRP
	kW	kW
DI16 074M	430	468
DI16 074M	450	511
DI16 074M	480	553
DI16 074M	511	596

* EU Stage IIIA only applies for propulsion engines with E2 test cycle.

EU Stage IIIA* and IMO Tier II compliant engines

Engines with keel cooling

Engine type	1,500 rpm PRP	1,800 rpm PRP
	kW	kW
DI16 075M	430	468
DI16 075M	450	511
DI16 075M	480	553
DI16 075M	511	596

* EU Stage IIIA only applies to propulsion engines with E2 test cycle.

US Tier 3 compliant engines

Engines with heat exchanger / with keel cooling

Engine type	1,800 rpm PRP
	kW
DI16 084M	468

IMO Tier III and IMO Tier II compliant engines

Engines with heat exchanger / with keel cooling

Engine type	1,500 rpm PRP	1,800 rpm PRP
	kW	kW
DI16 090M	430*	468**
DI16 090M	450*	511**
DI16 090M	480*	553*
DI16 090M	511*	596*
DI16 090M	535*	640*
DI16 091M	430	468
DI16 091M	450	511

* IMO Tier III compliant when using aftertreatment system from external supplier.

** IMO Tier II compliant only.



Dimensions and weights of marine auxiliary 16-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DI16 074/084/090/091M with heat exchanger	1,551 (61.1)	1,251 (49.3)	1,214 (47.8)	approx. 1,670 (3,682)
DI16 075/084/090M with keel cooling, double circuit	1,577 (62.1)	1,251 (49.3)	1,214 (47.8)	approx. 1,600 (3,527)

** Excluding oil and coolant.

Type approval

The majority of our marine engines, as well as the electrical systems and instrumentation, are type-approved by the leading classification associations. Contact your nearest Scania marine engine dealer for details.

Depending on emission compliance, the rating and output range may vary. For further details, please check the technical specification sheets on your local Scania market site.

INDUSTRIAL ENGINE RANGE



Engine data 9-series

EU Stage V and Korean Tier 5 compliant engines

Engine type	ICFN 1,800 rpm		ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp	kW	hp
DC09 310A	202	275	–	–	–	–
DC09 310A	240	326	–	–	–	–
DC09 311A	202	275	–	–	–	–
DC09 311A	240	326	–	–	–	–
DC09 312A	–	–	202	275	–	–
DC09 312A	–	–	232	315	–	–
DC09 313A	–	–	257	350	–	–
DC09 313A	–	–	–	–	276	375
DC09 313A	–	–	–	–	294	400

EU Stage V (RLL-v/c-1) compliant engine for locomotives

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC09 327A	–	–	294	400

EU Stage IV and US Tier 4f compliant engines

Engine type	ICFN 1,800 rpm		ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp	kW	hp
DC09 084A	–	–	202	275	–	–
DC09 085A	–	–	232	315	–	–
DC09 085A	–	–	243	330	–	–
DC09 085A	–	–	257	350	–	–
DC09 086A	–	–	–	–	276	375
DC09 086A	–	–	–	–	294	400
DC09 089A	237	322	–	–	–	–

China Stage IV compliant engines

Engine type	ICFN 1,800 rpm		ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp	kW	hp
DC09 330A	202	275	–	–	–	–
DC09 330A	240	326	–	–	–	–
DC09 331A	202	275	–	–	–	–
DC09 331A	214	291	–	–	–	–
DC09 331A	240	326	–	–	–	–
DC09 332A	–	–	202	275	–	–
DC09 332A	–	–	232	315	–	–
DC09 333A	–	–	257	350	–	–
DC09 333A	–	–	–	–	276	375
DC09 333A	–	–	–	–	294	400

EU Stage IIIA, China Stage III, Indian Bharat Stage III and Brazil MAR-I compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC09 076A	202	275	–	–
DC09 076A	232	315	–	–
DC09 076A	–	–	243	330
DC09 076A	–	–	257	350

EU Stage II, China Stage II and Russia Stage I compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC09 074A	202	275	–	–
DC09 074A	232	315	–	–
DC09 074A	243	330	–	–
DC09 074A	257	350	–	–
DC09 074A	–	–	276	375
DC09 074A	–	–	294	400

Dimensions and weights of industrial 9-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DC09 310/311/312/313/327/330/331/332/333A	1,214 (47.8)	982 (38.7)	1,209 (47.6)	approx. 950 (2,094)
DC09 085/086/087/089A	1,234 (48.6)	982 (38.7)	1,107 (43.6)	approx. 975 (2,149)
DC09 074/076A	1,242 (48.9)	842 (33.1)	1,119 (44.1)	approx. 950 (2,094)

** Excluding oil and coolant.

Engine data 13-series

EU Stage V and Korean Tier 5 compliant engines

Engine type	ICFN 1,800 rpm		ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp	kW	hp
DC13 310A	257	350	–	–	–	–
DC13 310A	283	385	–	–	–	–
DC13 310A	294	400	–	–	–	–
DC13 311A	257	350	–	–	–	–
DC13 311A	294	400	–	–	–	–
DC13 312A	–	–	294	400	–	–
DC13 312A	331	450	–	–	–	–
DC13 312A	–	–	331	450	–	–
DC13 313A	–	–	–	–	368	500
DC13 313A	–	–	–	–	405	550
DC13 314A*	–	–	–	–	405	550

* Engine for fire and emergency applications. Complies with EU Stage V only.

EU Stage V (RLL-v/c-1) compliant engine for locomotives

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC13 327A	–	–	405	550

EU Stage IV and US Tier 4f compliant engines

Engine type	ICFN 1,800 rpm		ICFN 2,100 rpm		IFN 1,900 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp	kW	hp	kW	hp
DC13 084A	–	–	294	400	–	–	–	–
DC13 084A	–	–	331	450	–	–	–	–
DC13 085A	–	–	–	–	–	–	368	500
DC13 085A	–	–	–	–	405	550	–	–
DC13 086A*	–	–	–	–	405	550	–	–
DC13 087A	257	350	–	–	–	–	–	–
DC13 087A	283	385	–	–	–	–	–	–
DC13 087A	–	–	257	350	–	–	–	–

* Engine for fire and emergency applications.

China Stage IV compliant engines

Engine type	ICFN 1,800 rpm		ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp	kW	hp
DC13 330A	257	350	–	–	–	–
DC13 330A	283	385	–	–	–	–
DC13 330A	294	400	–	–	–	–
DC13 331A	257	350	–	–	–	–
DC13 331A	294	400	–	–	–	–
DC13 332A	–	–	294	400	–	–
DC13 332A	331	450	–	–	–	–
DC13 332A	–	–	331	450	–	–
DC13 333A	368	500	–	–	–	–
DC13 333A	–	–	–	–	368	500
DC13 333A	–	–	–	–	405	550

EU Stage IIIA, China Stage III, India Bharat Stage III and Brazil MAR-I compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC13 076A	257	350	–	–
DC13 076A	294	400	–	–
DC13 076A	–	–	331	450

EU Stage II, China Stage II and Russian Stage I compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC13 074A	257	350	–	–
DC13 074A	294	400	–	–
DC13 074A	331	450	–	–
DC13 074A	–	–	368	500

Fuel-optimised, non-compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC13 091A	257	350	–	–
DC13 091A	294	400	–	–
DC13 091A	331	450	–	–
DC13 091A	–	–	368	500

Note: Engine type DC13 091A is only available in the Scania Latin American market.

Dimensions and weights of industrial 13-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DC13 310/311/312/313/327/330/331/332/333A	1,378 (54.3)	941 (37.1)	1,209 (47.6)	approx. 1,050 (2,315)
DC13 084/085/087/089A	1,398 (55)	955 (37.6)	1,119 (44.1)	approx. 1,075 (2,369)
DC13 074/076/091A	1,406 (46.5)	861 (33.9)	1,113 (43.8)	approx. 1,050 (2,315)

Engine data 16-series

EU Stage V and Korean Tier 5 compliant engines

Engine type	ICFN 1,900 rpm		ICFN 2,100 rpm		IFN 1,900 rpm	
	kW	hp	kW	hp	kW	hp
DC16 316A	405	550	–	–	–	–
DC16 316A	450	612	–	–	–	–
DC16 316A	–	–	–	–	478	650
DC16 317A	–	–	405	550	–	–
DC16 317A	–	–	450	612	–	–
DC16 317A	–	–	478	650	–	–
DC16 317A	–	–	–	–	522	710
DC16 318A*	–	–	–	–	522	710

* Engine for fire and emergency applications.

EU Stage V compliant engines

Engine type	ICFN 2,100 rpm		ICFN 1,900 rpm		IFN 2,000 rpm	
	kW	hp	kW	hp	kW	hp
DC16 313A	405	550	–	–	–	–
DC16 313A	450	612	–	–	–	–
DC16 314A	–	–	478	650	–	–
DC16 314A	–	–	522	710	–	–
DC16 385A	–	–	–	–	566	770
DC16 386A	–	–	–	–	566	770

* Engine for fire and emergency applications.

EU Stage IV and US Tier 4f compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC16 084A	405	550	–	–
DC16 084A	441	600	–	–
DC16 084A	478	650	–	–
DC16 084A	–	–	493	670
DC16 085A*	–	–	566	770
DC16 091A**	405	550	–	–
DC16 091A**	–	–	493	670

* Complies with US emission regulation for engines >560 kW. DC16 085A is an all-speed engine. For the emission certificate to be valid, it must not be used in generator set.

Note: A Scania engine that is certified in a regulatory power category greater than 560 kW may under no circumstances be permanently constrained to a maximum level below 560 kW.

** Engine for fire and emergency applications.

US Tier 4f compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,000 rpm	
	kW	hp	kW	hp
DC16 084A	441	600	–	–
DC16 092A*	–	–	566	770

* Engine for fire and emergency applications.

Euro 5 compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC16 094A*	–	–	522	710

* Engine for fire and emergency applications.

EU Stage V (RLL-v/c-1) compliant engine for locomotives

Engine type	ICFN 2,000 rpm		IFN 2,000 rpm	
	kW	hp	kW	hp
DC16 092A	–	–	555	755

China Stage IV compliant engines

Engine type	ICFN 2,100 rpm		ICFN 1,900 rpm		IFN 1,900 rpm	
	kW	hp	kW	hp	kW	hp
DC16 336A	–	–	405	550	–	–
DC16 336A	–	–	450	612	–	–
DC16 336A	–	–	–	–	478	650
DC16 337A	405	550	–	–	–	–
DC16 337A	450	612	–	–	–	–
DC16 337A	478	650	–	–	–	–
DC16 337A	–	–	–	–	522	710
DC16 338A*	–	–	–	–	522	710

* Engine for fire and emergency applications.

China Stage II and Russia Stage I compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC16 074A	405	550	–	–
DC16 074A	478	650	–	–
DC16 074A	–	–	515	700

China Stage III and India Bharat Stage III compliant engines

Engine type	ICFN 1,900 rpm		IFN 1,900 rpm	
	kW	hp	kW	hp
DC16 076A	368	500	–	–
DC16 076A	–	–	405	550
DC16 076A	–	–	425	578

China Stage III compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC16 088A	–	–	574	780

Fuel-optimised, non-compliant engines

Engine type	ICFN 2,100 rpm		IFN 2,100 rpm	
	kW	hp	kW	hp
DC16 086A	–	–	566	770

US Tier 3 compliant engines

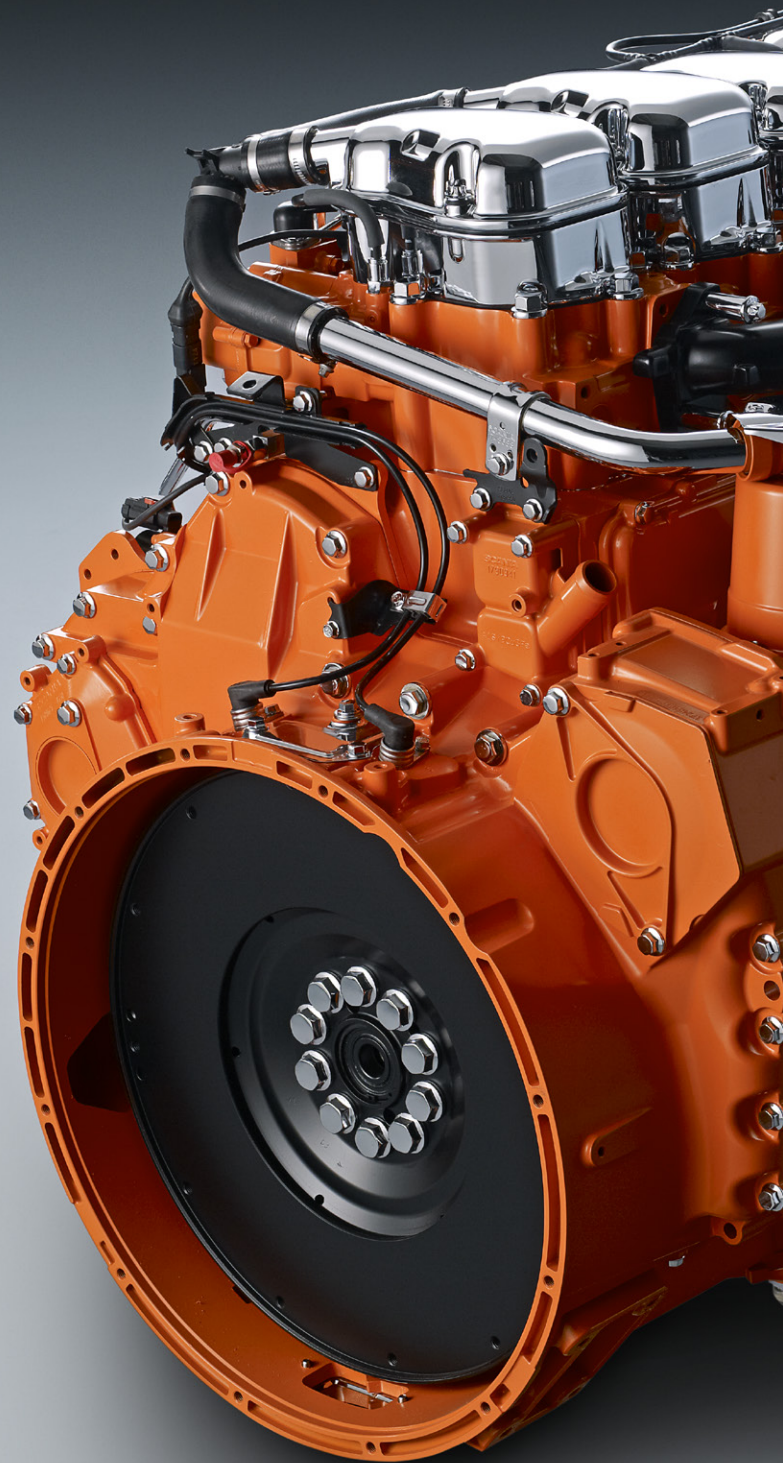
Engine type	IFN 1,900 rpm		IFN 2,000 rpm	
	kW	hp	kW	hp
DC16 087A*	–	–	515	700
DC16 087A*	551	750	–	–

* Engine for fire and emergency applications.

Dimensions and weights of industrial 16-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DC16 074/076A	1,345 (53)	1,096 (43.1)	1,205 (47.4)	approx. 1,340 (2,954)
DC16 084/087/091/094A	1,410 (55.5)	1,199 (47.2)	1,289 (50.8)	approx. 1,375 (3,031)
DC16 085/086/092/385/386A	1,315 (51.8)	1,126 (44.3)	1,207 (47.5)	approx. 1,340 (2,954)
DC16 313/314A	1,572 (61.9)	1,126 (44.3)	1,297 (51.1)	approx. 1,361 (3,000)
DC16 316/317/318/336/337/338A	1,409 (55.5)	1,198 (47.2)	1,288 (50.7)	approx. 1,381 (3,045)

** Excluding oil and coolant.



POWER GENERATION ENGINE RANGE

Engine data 9-series

EU Stage V compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC09 320A	223	250	–	–	225	250	–	–
DC09 320A	244	275	–	–	247	275	–	–
DC09 320A	265	300	–	–	268	300	–	–
DC09 320A	289	330	–	–	303	353	–	–

US Tier 4f compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC09 085A	–	–	–	–	234	260	–	–
DC09 086A	–	–	–	–	268	300	–	–

EU Stage IIIA, China Stage III and CPCB-II* compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC09 071A	226	253	–	–	251	278	–	–
DC09 071A	248	279	–	–	273	306	–	–
DC09 071A	267	304	–	–	292	328	–	–
DC09 071A	289	329	–	–	313	353	–	–

* Mass Emission & Smoke Norms for Genset Diesel Engine, up to 800 kW (for India).

EU Stage II and China Stage II compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC09 073A	226	253	249	280	251	278	276	309
DC09 073A	248	279	273	310	273	303	300	338
DC09 073A	267	304	294	335	292	328	321	361
DC09 073A	289	329	317	361	325	366	358	405

Fuel-optimised, non-compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC09 072A	226	253	249	280	251	278	276	309
DC09 072A	248	279	273	310	273	306	300	338
DC09 072A	267	304	294	335	292	328	321	361
DC09 072A	289	329	317	361	325	366	358	405

Dimensions and weights of power generation 9-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DC09 320A	1,214 (47.8)	982 (38.7)	1,209 (47.6)	approx. 950 (2,094)
DC09 071A	1,242 (48.9)	906 (35.7)	1,285 (50.6)	approx. 950 (2,094)
DC09 072A	1,242 (48.9)	861 (33.4)	1,292 (50.9)	approx. 950 (2,094)
DC09 073A	1,242 (48.9)	861 (33.4)	1,292 (50.9)	approx. 950 (2,094)
DC09 085/086A	1,234 (59.80)	982 (37.60)	1,088 (43.74)	approx. 975 (2,150)

** Excluding oil and coolant.

Engine data 13-series

EU Stage V compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC13 320A	311	350	–	–	318	350	–	–
DC13 320A	354	400	–	–	361	400	–	–
DC13 320A	397	450	–	–	404	450	–	–

US Tier 4f compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC13 084A	–	–	–	–	301	330	–	–
DC13 085A	–	–	–	–	335	370	–	–
DC13 085A	–	–	–	–	370	410	–	–

EU Stage IIIA, China Stage III and CPCB-II* compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC13 071A	325	366	–	–	371	411	–	–
DC13 071A	364	411	–	–	371	411	–	–

* Mass Emission & Smoke Norms for Genset Diesel Engine, up to 800 kW (for India).

EU Stage II and China Stage II compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC13 073A	326	373	356	408	372	421	406	460
DC13 073A	365	413	403	456	410	456	449	508
DC13 073A	403	456	438	503	445	503	487	553
DC13 073A	438	503	480	553	445	503	487	553

Fuel-optimised, non-compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC13 072A	326	373	356	408	372	421	406	460
DC13 072A	365	413	403	456	410	456	449	508
DC13 072A	403	456	438	503	445	503	487	553
DC13 072A	438	503	480	553	445	503	487	553
DC13 072A*	–	–	356	408	–	–	415	471
DC13 093A	423	480	465	535	443	500	487	552
DC13 093A	423	480	465	535	485	550	534	607
DC13 093A	423	480	465	535	499	566	549	625
DC13 093A	423	480	465	535	528	600	580	662

* Note: This engine is only available in the Scania Latin American market.

Dimensions and weights of power generation 13-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DC13 320A	1,378 (54.3)	941 (37.1)	1,209 (47.6)	approx. 1,050 (2,315)
DC13 071A	1,406 (55.4)	907 (35.7)	1,209 (47.6)	approx. 1,050 (2,315)
DC13 072A	1,406 (55.4)	860 (33.9)	1,221 (48.1)	approx. 1,050 (2,315)
DC13 073A	1,406 (55.4)	860 (33.9)	1,221 (48.1)	approx. 1,050 (2,315)
DC13 084/085A	1,519 (59.80)	955 (37.60)	1,111 (43.74)	approx. 1,075 (2,370)
DC13 093A	1,406 (55.4)	880 (34.7)	1,270 (50)	approx. 1,050 kg (2,315)

** Excl. oil and coolant

Engine data 16-series

EU Stage V compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC16 320A	398	450	–	–	408	450	–	–
DC16 320A	439	500	–	–	449	500	–	–
DC16 320A	481	550	–	–	491	550	–	–

US Tier 4f compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC16 084A	–	–	–	–	367	400	–	–
DC16 084A	–	–	–	–	436	480	–	–
DC16 084A	–	–	–	–	448	500	–	–

EU Stage IIIA, China Stage III and CPCB-II* compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC16 071A	438	500	–	–	483	540	–	–
DC16 071A	480	549	–	–	483	540	–	–

* Mass Emission & Smoke Norms for Genset Diesel Engine, up to 800 kW (for India).

Fuel-optimised, non-compliant engines

Engine type	1,500 rpm (50 Hz)				1,800 rpm (60 Hz)			
	PRP		ESP		PRP		ESP	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
DC16 072A	536	601	587	661	576	650	632	715
DC16 072A	578	651	634	716	619	700	678	770
DC16 072A	621	701	680	771	642	728	704	800
DC16 078A	536	600	587	660	534	600	585	660
DC16 078A	578	650	634	715	576	650	632	715
DC16 078A	621	700	680	770	620	702	680	772
DC16 078A	644	725	706	800	640	725	702	800
DC16 093A	451	514	496	567	447	501	492	553
DC16 093A	486	555	535	613	489	550	538	607
DC16 093A	529	606	582	668	532	600	585	663
DC16 093A	558	640	614	706	576	652	634	720

Note: DC16 072A is optimised for 60 Hz and DC16 078A for 50 Hz.

Gas engine OC16

Engine type	1,500 rpm (50 Hz) PRP		1,800 rpm (60 Hz) PRP	
	kW	kVA	kW	kVA
OC16 071A*	333	364	372	409
OC16 071A*	372	409	411	455
OC16 071A*	407	455	426	477
OC16 071A**	360	395	360	395

* For natural gas.

** For biogas.

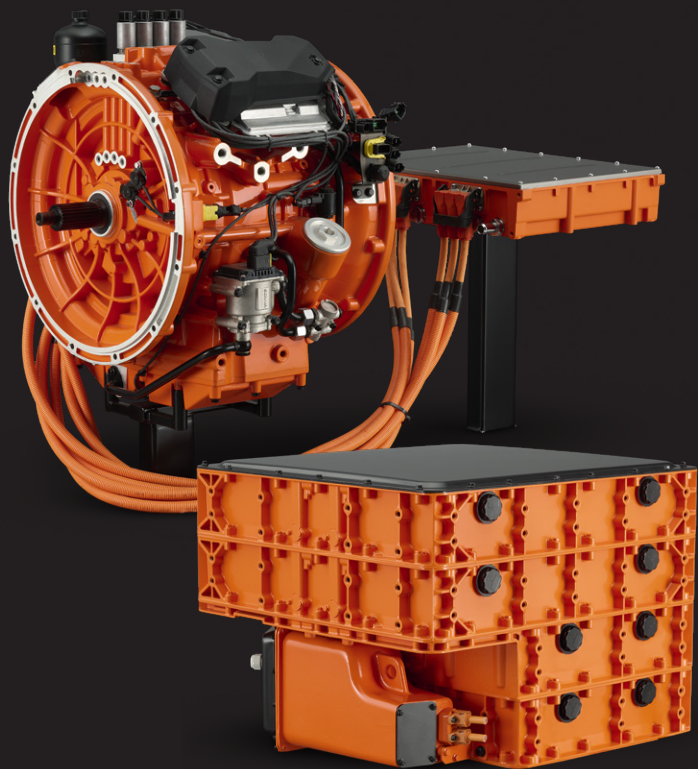
Dimensions and weights of power generation 16-litre engines

Engine type	L mm (in)	W mm (in)	H mm (in)	Weight** kg (lb)
DC16 320A	1,572 (61.9)	1,126 (44.3)	1,297 (51.1)	approx. 1,361 (3,000)
DC16 071A	1,324 (52.1)	1,127 (44.4)	1,288 (50.7)	approx. 1,340 (2,954)
DC16 072/078A	1,315 (51.8)	1,126 (44.3)	1,207 (47.5)	approx. 1,340 (2,954)
DC016 084A	1,400 (55.12)	1,199 (47.20)	1,289 (50.75)	approx. 1,375 (3,031)
DC16 093A	1,345 (53.0)	1,096 (43.1)	1,205 (47.4)	approx. 1,340 (2,954)
OC16 071A	2,021 (79.6)	1,316 (51.8)	1,754 (69.1)	approx. 1,352 (2,980)

** Excluding oil and coolant.

Depending on emission compliance, the rating and output range may vary. For further details, please check the technical specification sheets on your local Scania market site.

ELECTRIFIED POWER SYSTEMS



Electric machine

For hybrid or fully electric use

Type designation	kW continuous*	
	2100 rpm	1400 rpm
EM 501A (industrial)	150 kW	210 kW
EM 502A (industrial)	180 kW	240 kW
EM 503A (industrial)	200 kW	270 kW
EM 505A (industrial)	230 kW	295 kW
EM 501M (marine)	150 kW	210 kW
EM 502M (marine)	180 kW	240 kW
EM 503M (marine)	200 kW	270kW
EM 505M (marine)	230 kW	295 kW

* At nominal voltage (650 V).

Dimensions and weight of electric machine

Type designation	L mm (in)	W mm (in)	H mm (in)	Weight kg (lb)
All	495 (19.5)	660 (26.0)	705 (27.8)	approx. 250 (551)

Battery packs

Lithium ion NMC/graphite technology including Scania in-house Battery Management System. The electric performance specifications apply at nominal voltage 650 V DC and upper limits based on beginning of life @SOH 100%. Total values depend on usable energy factor and SOC.

Type designation	Installed energy	Capacity	C-Rate
	kWh	Ah	Discharge/Charge
B8 408	100	157	up to 1.6/1.3
B8 413	200	314	up to 1.6/1.3

Dimensions and weights of battery packs

Type designation	L mm (in)	W mm (in)	H mm (in)	Weight kg (lb)
B8 408	897 (35.3)	775 (30.5)	636 (25.0)	620 (1,367)
B8 413	1,597 (62.9)	775 (30.5)	636 (25.0)	1,150 (2,535)

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