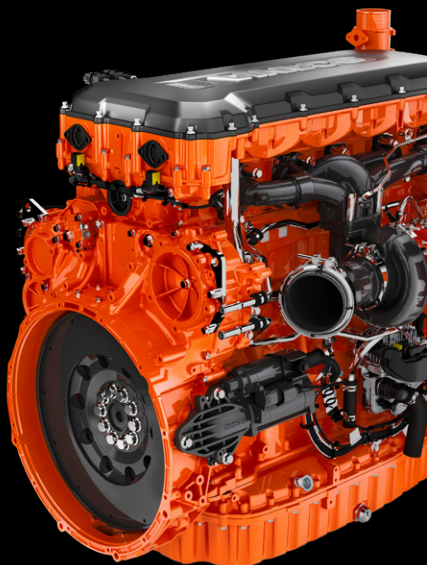
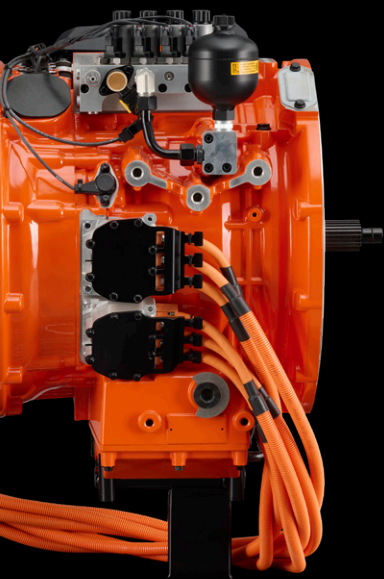




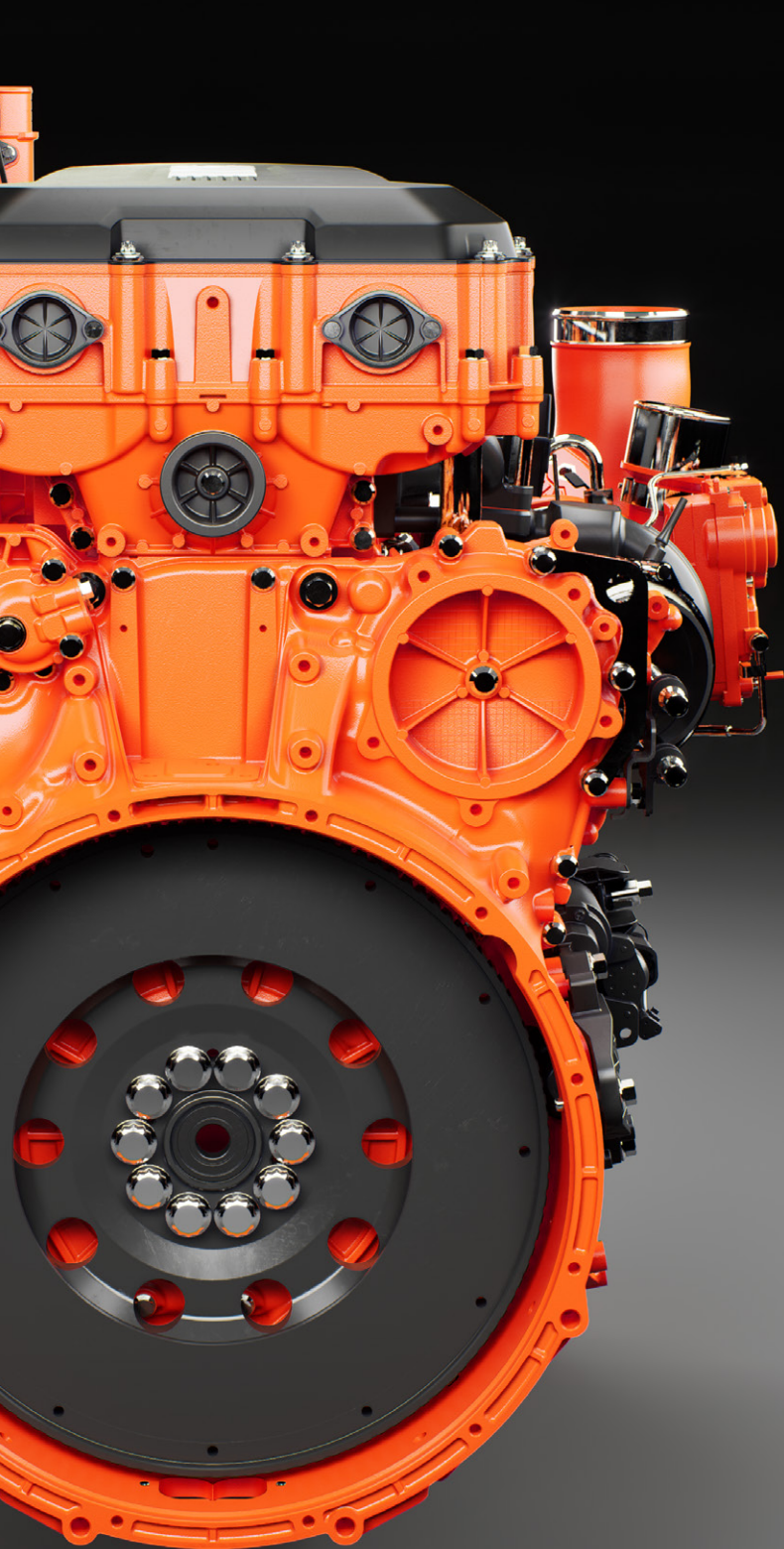
NEXT GENERATION

SCANIA POWER SOLUTIONS PRODUCT RANGE

For industrial, power generation
and marine applications



SCANIA



RELIABLE AND EFFICIENT POWER

Wherever there are substantial demands on reliability, efficiency, and environmental consideration, a Scania engine is just what you need.

Scania has manufactured engines for more than a century. Today we produce around 100,000 engines a year for trucks and buses, as well as for marine, industrial and power generation applications. Our experience and competence form the base of our state-of-the-art product range, combining excellent performance and low total cost of ownership.

To meet the needs of the future we are also continuously adding both fully electrified and hybrid-electric powertrain options to more applications – providing choices with even lower emissions and even more performance. All with road-proven reliability, and using the world's greenest heavy duty commercial transport batteries.

With outstanding parts availability and close to 2,000 dealers worldwide, assistance is always close at hand. We maximise your uptime so that you can focus on what matters – your operation.

INDUSTRIAL ENGINE RANGE



Engine data 11-series

EU Stage V and Korean Tier 5 compliant engines

| Engine type | ICFN 2,100 rpm | | IFN 1,900 rpm | |
|-------------|----------------|-----|---------------|-----|
| | kW | hp | kW | hp |
| DC11 501A | 202 | 275 | - | - |
| DC11 501A | 232 | 315 | - | - |
| DC11 501A | 257 | 350 | - | - |
| DC11 501A | 283 | 385 | - | - |
| DC11 501A | 294 | 400 | - | - |
| DC11 504A | 331 | 450 | - | - |
| DC11 504A | - | - | 368 | 500 |

China Stage IV compliant engines

| Engine type | ICFN 2,100 rpm | | IFN 1,900 rpm | |
|-------------|----------------|-----|---------------|-----|
| | kW | hp | kW | hp |
| DC11 502A | 202 | 275 | - | - |
| DC11 502A | 232 | 315 | - | - |
| DC11 502A | 257 | 350 | - | - |
| DC11 502A | 283 | 385 | - | - |
| DC11 502A | 294 | 400 | - | - |
| DC11 503A | 331 | 450 | - | - |
| DC11 503A | - | - | 368 | 500 |

US Tier 4f and EU Stage V compliant engines

| Engine type | ICFN 2,100 rpm | | IFN 1,900 rpm | |
|-------------|----------------|-----|---------------|-----|
| | kW | hp | kW | hp |
| DC11 541A | 202 | 275 | - | - |
| DC11 541A | 232 | 315 | - | - |
| DC11 541A | 257 | 350 | - | - |
| DC11 541A | 283 | 385 | - | - |
| DC11 541A | 294 | 400 | - | - |
| DC11 542A | 331 | 450 | - | - |
| DC11 542A | - | - | 368 | 500 |

EU Stage II equivalent engines

| Engine type | ICFN 2,100 rpm | | IFN 1,900 rpm | |
|-------------|----------------|-----|---------------|-----|
| | kW | hp | kW | hp |
| DC11 505A | 202 | 275 | - | - |
| DC11 505A | 232 | 315 | - | - |
| DC11 505A | 257 | 350 | - | - |
| DC11 505A | 283 | 385 | - | - |
| DC11 505A | 294 | 400 | - | - |
| DC11 505A | 331 | 450 | - | - |
| DC11 505A | - | - | 368 | 500 |

Dimensions and weights of 11-litre industrial engines

| Engine type | L mm (in) | W mm (in) | H mm (in) | Weight* kg (lb) |
|-------------|--------------|------------|--------------|---------------------|
| DC11A (all) | 1,235 (48.6) | 932 (36.7) | 1,171 (46.1) | approx. 970 (2,138) |

* 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 1,900 rpm | |
|-------------|----------------|-----|----------------|-----|---------------|-----|
| | kW | hp | kW | hp | kW | hp |
| DC13 501A | - | - | 202 | 275 | - | - |
| DC13 501A | 257 | 350 | - | - | - | - |
| DC13 501A | 283 | 385 | 283 | 385 | - | - |
| DC13 501A | 294 | 400 | 294 | 400 | - | - |
| DC13 501A | 331 | 450 | 331 | 450 | - | - |
| DC13 501A | - | - | 368 | 500 | - | - |
| DC13 501A | - | - | 405 | 550 | - | - |
| DC13 501A | - | - | - | - | 450 | 612 |

China Stage IV compliant engines

| Engine type | ICFN 1,800 rpm | | ICFN 2,100 rpm | | IFN 1,900 rpm | |
|-------------|----------------|-----|----------------|-----|---------------|-----|
| | kW | hp | kW | hp | kW | hp |
| DC13 502A | 257 | 350 | 257 | 350 | - | - |
| DC13 502A | 283 | 385 | - | - | - | - |
| DC13 502A | 294 | 400 | 294 | 400 | - | - |
| DC13 502A | 331 | 450 | 331 | 450 | - | - |
| DC13 502A | - | - | 368 | 500 | - | - |
| DC13 502A | - | - | 405 | 550 | - | - |
| DC13 502A | - | - | - | - | 450 | 612 |

US Tier 4f and EU Stage V compliant engines

| Engine type | ICFN 1,800 rpm | | ICFN 2,100 rpm | | IFN 1,900 rpm | |
|-------------|----------------|-----|----------------|-----|---------------|-----|
| | kW | hp | kW | hp | kW | hp |
| DC13 541A | - | - | 202 | 275 | - | - |
| DC13 541A | 257 | 350 | - | - | - | - |
| DC13 541A | 283 | 385 | 283 | 385 | - | - |
| DC13 541A | 294 | 400 | 294 | 400 | - | - |
| DC13 541A | 331 | 450 | 331 | 450 | - | - |
| DC13 541A | - | - | 368 | 500 | - | - |
| DC13 541A | - | - | 405 | 550 | - | - |
| DC13 541A | - | - | - | - | 450 | 612 |

EU Stage II equivalent engines

| Engine type | ICFN 2,100 rpm | | IFN 1,900 rpm | |
|-------------|----------------|-----|---------------|-----|
| | kW | hp | kW | hp |
| DC13 503A | 257 | 350 | - | - |
| DC13 503A | 283 | 385 | - | - |
| DC13 503A | 294 | 400 | - | - |
| DC13 503A | 331 | 450 | - | - |
| DC13 503A | 368 | 500 | - | - |
| DC13 503A | 405 | 550 | - | - |
| DC13 503A | - | - | 450 | 612 |

Dimensions and weights of 13-litre industrial engines

| Engine type | L mm (in) | W mm (in) | H mm (in) | Weight* kg (lb) |
|-------------|--------------|------------|--------------|-----------------------|
| DC13A (all) | 1,397 (55.0) | 920 (36.2) | 1,131 (44.5) | approx. 1,053 (2,321) |

* Excluding oil and coolant.

Ratings

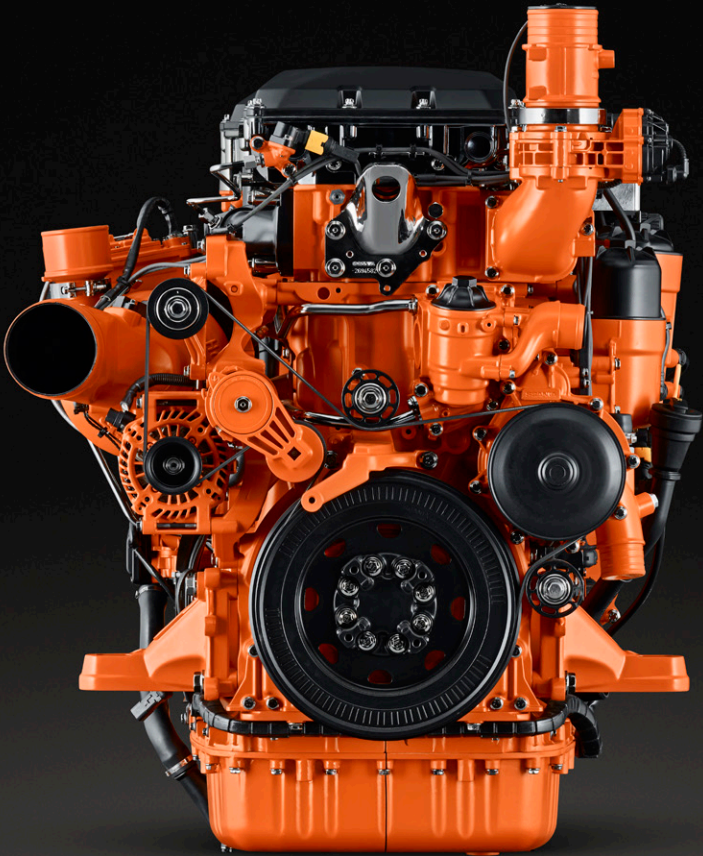
ICFN: Continuous service

Engine speeds at 85% of rated speed or above: 100% output available for 1 h/1 h period with an average load factor of 100%.
Engine speeds below 85% of rated speed: 100% output available for 1 h/6 h period with a max average load factor of 80%.

IFN: Intermittent service

Rated output is available for 1 h/6 h period.
Unlimited h/year service time at a load factor of 80%.

* Excluding oil and coolant.





POWER GENERATION ENGINE RANGE

Engine data 13-series

EU Stage V compliant engines

| Engine type | 1,500 rpm (50 Hz) PRP | | 1,800 rpm (60 Hz) PRP | |
|-------------|-----------------------|-----|-----------------------|-----|
| | kVA | kW | kVA | kW |
| DC13 505A | 300 | 269 | 300 | 275 |
| DC13 505A | 350 | 312 | 350 | 318 |
| DC13 505A | 400 | 355 | 400 | 361 |
| DC13 505A | 450 | 398 | 450 | 404 |
| DC13 505A | 500 | 437 | 500 | 443 |

China Stage IV compliant engines

| Engine type | 1,500 rpm (50 Hz) PRP | | 1,800 rpm (60 Hz) PRP | |
|-------------|-----------------------|-----|-----------------------|-----|
| | kVA | kW | kVA | kW |
| DC13 506A | 300 | 269 | 300 | 275 |
| DC13 506A | 350 | 312 | 350 | 318 |
| DC13 506A | 400 | 355 | 400 | 361 |
| DC13 506A | 450 | 398 | 450 | 404 |
| DC13 506A | 500 | 437 | 500 | 443 |

CO₂ optimised, non-compliant engines

| Engine type | 1,500 rpm (50 Hz) | | | | 1,800 rpm (60 Hz) | | | |
|-------------|-------------------|-----|-----|-----|-------------------|-----|-----|-----|
| | PRP | | ESP | | PRP | | ESP | |
| | kVA | kW | kVA | kW | kVA | kW | kVA | kW |
| DC13 507A | 300 | 269 | 330 | 295 | 300 | 275 | 330 | 301 |
| DC13 507A | 350 | 312 | 385 | 342 | 350 | 318 | 385 | 348 |
| DC13 507A | 400 | 355 | 440 | 389 | 400 | 361 | 440 | 395 |
| DC13 507A | 450 | 398 | 495 | 437 | 450 | 404 | 495 | 443 |
| DC13 507A | 500 | 437 | 550 | 479 | 500 | 443 | 550 | 485 |
| DC13 507A | 550 | 479 | 605 | 526 | 550 | 485 | 605 | 532 |
| DC13 507A | 600 | 522 | 660 | 573 | 600 | 528 | 660 | 579 |

Dimensions and weights of 13-litre power generation engines

| Engine type | L mm (in) | W mm (in) | H mm (in) | Weight* kg (lb) |
|---------------|--------------|--------------|--------------|-----------------------|
| DC13 505/506A | 1,401 (55.2) | 1,011 (39.8) | 1,061 (41.8) | approx. 1,074 (2,368) |
| DC13 507A | 1,400 (55.1) | 1,021 (40.2) | 1,200 (47.2) | approx. 1,069 (2,357) |

* Excluding oil and coolant.

Ratings

PRP: Prime power

For continuous operation and unlimited yearly operating time at varying load. Max mean load factor of 70% of rated power over 24 h of operation. 1 h/12 h period of overload to 110% load. Max 25 h accumulated service time above 100% load per year.

ESP: Maximum stand-by power

For operation under normal varying load during a power outage. Not overloadable. Max mean load factor of 70% of rated power over 24 h of operation. Not for applications intended for more than 200 h/year.



MARINE ENGINE RANGE

Engine data 13-series

Marine propulsion engines

IMO Tier 3 compliant engines

Engines with heat exchanger

| Engine type | ICFN 1,800 rpm | | ICFN 2,100 rpm | |
|-------------|-------------------|-----|-------------------|-----|
| | kW | hp | kW | hp |
| DI13 511M | 257 | 350 | - | - |
| DI13 511M | 294 | 400 | - | - |
| DI13 511M | 331 | 450 | - | - |
| DI13 511M | 368 | 500 | 368 | 500 |
| DI13 511M | 405 | 550 | 405 | 550 |
| DI13 511M | 441 | 600 | 441 | 600 |

Engines with keel cooling

| Engine type | ICFN 1,800 rpm | | ICFN 2,100 rpm | |
|-------------|-------------------|-----|-------------------|-----|
| | kW | hp | kW | hp |
| DI13 512M | 257 | 350 | - | - |
| DI13 512M | 294 | 400 | - | - |
| DI13 512M | 331 | 450 | - | - |
| DI13 512M | 368 | 500 | 368 | 500 |
| DI13 512M | 405 | 550 | 405 | 550 |
| DI13 512M | 441 | 600 | 441 | 600 |

EU RCD Stage II compliant engines

Engines with heat exchanger

| Engine type | Pleasure craft 2,300 rpm | |
|-------------|-----------------------------|-------|
| | kW | hp |
| DI13 502M | 588 | 800 |
| DI13 502M | 662 | 900 |
| DI13 502M | 699 | 950 |
| DI13 510M | 588 | 800 |
| DI13 510M | 699 | 950 |
| DI13 510M | 736 | 1,000 |
| DI13 510M | 772 | 1,050 |

IMO Tier 2 compliant engines

Engines with heat exchanger

| Engine type | ICFN 1,800 rpm | | ICFN 2,100 rpm | | IFN 2,100 rpm | |
|-------------|-------------------|-----|-------------------|-----|------------------|-----|
| | kW | hp | kW | hp | kW | hp |
| DI13 501M | 294 | 400 | - | - | - | - |
| DI13 501M | 331 | 450 | - | - | - | - |
| DI13 501M | 368 | 500 | - | - | - | - |
| DI13 501M | 405 | 550 | - | - | - | - |
| DI13 501M | 441 | 600 | - | - | - | - |
| DI13 503M | - | - | 331 | 450 | - | - |
| DI13 503M | - | - | 368 | 500 | - | - |
| DI13 503M | - | - | 405 | 550 | - | - |
| DI13 503M | - | - | 441 | 600 | - | - |
| DI13 503M | - | - | - | - | 478 | 650 |
| DI13 506M | - | - | - | - | 441 | 600 |
| DI13 506M | - | - | - | - | 478 | 650 |
| DI13 506M | - | - | - | - | 515 | 700 |
| DI13 506M | - | - | - | - | 552 | 750 |

| Engine type | Patrol craft long 2,300 rpm | | Patrol craft short 2,300 rpm | | Pleasure craft 2,300 rpm | |
|-------------|--------------------------------|-----|---------------------------------|------|-----------------------------|-------|
| | kW | hp | kW | hp | kW | hp |
| DI13 507M | 552 | 750 | - | - | - | - |
| DI13 507M | 588 | 800 | - | - | - | - |
| DI13 507M | 625 | 850 | - | - | - | - |
| DI13 508M | 552 | 750 | - | - | - | - |
| DI13 508M | 625 | 850 | - | - | - | - |
| DI13 508M | 662 | 900 | - | - | - | - |
| DI13 508M | 699 | 950 | - | - | - | - |
| DI13 509M | - | - | 699 | 950 | - | - |
| DI13 509M | - | - | 736 | 1000 | - | - |
| DI13 509M | - | - | 772 | 1050 | - | - |
| DI13 510M | - | - | - | - | 588 | 800 |
| DI13 510M | - | - | - | - | 699 | 950 |
| DI13 510M | - | - | - | - | 736 | 1,000 |
| DI13 510M | - | - | - | - | 772 | 1,050 |

Engines with keel cooling

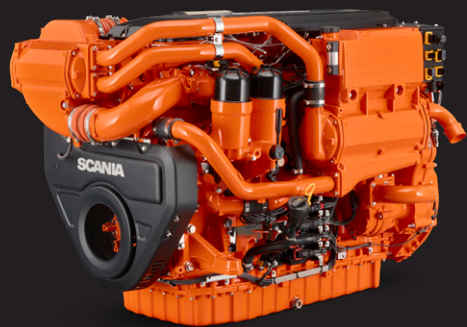
| Engine type | IFN 2,100 rpm | |
|-------------|------------------|-----|
| | kW | hp |
| DI13 516M | 441 | 600 |
| DI13 516M | 478 | 650 |
| DI13 516M | 515 | 700 |
| DI13 516M | 552 | 750 |

US Tier 3 compliant engines

Engines with heat exchanger

| Engine type | ICFN 1,800 rpm | | ICFN 2,100 rpm | | IFN 2,100 rpm | |
|-------------|-------------------|-----|-------------------|-----|------------------|-----|
| | kW | hp | kW | hp | kW | hp |
| DI13 501M | 294 | 400 | - | - | - | - |
| DI13 501M | 331 | 450 | - | - | - | - |
| DI13 501M | 368 | 500 | - | - | - | - |
| DI13 501M | 405 | 550 | - | - | - | - |
| DI13 501M | 441 | 600 | - | - | - | - |
| DI13 503M | - | - | 331 | 450 | - | - |
| DI13 503M | - | - | 368 | 500 | - | - |
| DI13 503M | - | - | 405 | 550 | - | - |
| DI13 503M | - | - | 441 | 600 | - | - |
| DI13 503M | - | - | - | - | 478 | 650 |
| DI13 504M | - | - | - | - | 460 | 625 |
| DI13 504M | - | - | - | - | 478 | 650 |
| DI13 504M | - | - | - | - | 515 | 700 |
| DI13 504M | - | - | - | - | 552 | 750 |

| Engine type | Patrol craft long 2,300 rpm | | Pleasure craft 2,300 rpm | |
|-------------|--------------------------------|-----|-----------------------------|-----|
| | kW | hp | kW | hp |
| DI13 502M | - | - | 588 | 800 |
| DI13 502M | - | - | 662 | 900 |
| DI13 502M | - | - | 699 | 950 |
| DI13 505M | 552 | 750 | - | - |
| DI13 505M | 588 | 800 | - | - |



Ratings

ICFN: Continuous service
Rated output is available 1 h/1 h. Unlimited h/year service time at a load factor of 100%.

IFN: Intermittent service
Intended for intermittent use where rated power is available for 1 h/3 h period. Accumulated load factor must not exceed 80% of rated power. Unlimited h/year service time.

Patrol craft long
Intended for intermittent use where rated power is available for 1 h/6 h period. Between full load operations, the engine rpm must be reduced by at least 10% from the max obtained rpm. Accumulated total service time max 2,000 h/year.

Patrol craft short
Intended for intermittent use where rated power is available for 1 h/12 h period. Between full load operations, the engine rpm must be reduced by at least 10% from the max obtained rpm. Accumulated total service time max 1,200 h/year.

Pleasure craft
Intended for intermittent use where rated power is available 1 h/20 h period. Accumulated load factor must not exceed 50% of rated power. Accumulated total service time max 500 h/year.



Marine auxiliary engines

IMO Tier 3 compliant engines
Engines with heat exchanger

| Engine type | 1,500 rpm PRP | 1,800 rpm PRP |
|-------------|---------------|---------------|
| | kW | kW |
| DI13 521M | 301 | 344 |
| DI13 521M | 344 | 387 |
| DI13 521M | 373 | 373 |
| DI13 521M | 426 | 426 |
| DI13 521M | 468 | 468 |

Engines with keel cooling

| Engine type | 1,500 rpm PRP | 1,800 rpm PRP |
|-------------|---------------|---------------|
| | kW | kW |
| DI13 522M | 301 | 344 |
| DI13 522M | 344 | 387 |
| DI13 522M | 373 | 373 |
| DI13 522M | 426 | 426 |

IMO Tier 2 compliant engines
Engines with heat exchanger / with keel cooling

| Engine type | 1,500 rpm PRP | 1,800 rpm PRP |
|-------------|---------------|---------------|
| | kW | kW |
| DI13 520M | 301 | 344 |
| DI13 520M | 344 | 387 |
| DI13 520M | 373 | 373 |
| DI13 520M | 426 | 468 |
| DI13 520M | 511 | 511 |
| DI13 520M | 511 | 553 |

Ratings

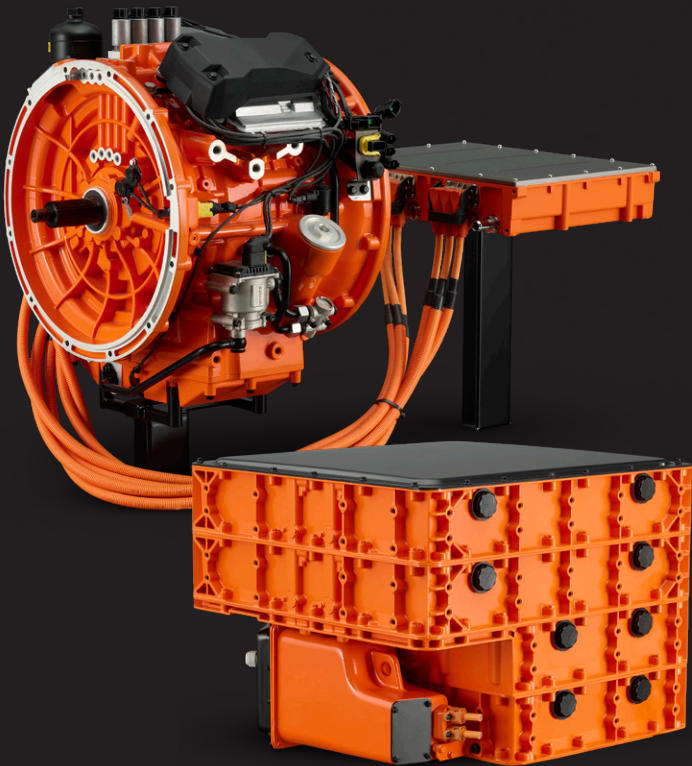
PRP: Prime power
For continuous operation and unlimited yearly operating time at varying load. Max mean load factor of 70% of rated power over 24 h of operation. 1 h/12 h period of overload to 110% load. Max 25 h accumulated service time above 100% load per year.

Dimensions and weights of 13-litre marine engines

| Engine type | L mm (in) | W mm (in) | H mm (in) | Weight* kg (lb) |
|-------------|--------------|------------|--------------|-----------------------|
| All | 1,489 (58.6) | 994 (39.1) | 1,041 (41.0) | approx. 1,295 (2,855) |

* Excluding oil and coolant.

ELECTRIFIED POWER SYSTEMS



Electric machine

For hybrid or fully electric use

| Type designation | kW continuous* | kW peak* |
|----------------------|----------------|----------|
| | 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) |



SCANIA POWER SOLUTIONS PRODUCT RANGE

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