

OFFSHORE POWER MODULES

Model	L With Base		W of Base		H With Base		Approx. Weight With Base	
	m	ft	mm	in	mm	in	kg	lb
3512B	5.44	17'10"	1790	71	2225	90	13 970	30,800
3512B HD	5.44	17'10"	1790	71	2225	90	14 515	32,000
3516B	6.10	20'0"	1790	71	2225	90	16 740	36,900
3516B HD	6.40	21'0"	1790	71	2225	90	17 236	38,000
3606	7.39	24'3"	1905	75	3250	128	37 194	82,000
3608	9.91	32'6"	1905	75	3250	128	44 452	98,000
3612	9.45	31'0"	2085	82	3300	130	55 340	122,000
3616	10.06	33'0"	2085	82	3300	130	65 317	144,000
12CM32	11.05	36'2"	2800	110	4600	182	121 000	266,200
16CM32	12.9	42'4"	3000	119	4600	182	150 000	330,700

LAND RIG POWER MODULES

Model	L Bases Available*	W of Base		Radiator Height With Base		Approx. Weight With Base	
	7.85 m (25'9")	mm	in	mm	in	kg	lb
3508	X	2390	94	2896	114	13 155	29,000
3508B	X	2390	94	2896	114	13 155	29,000
3512	X	2390	94	2896	114	15 875	35,000
3512B	X	2390	94	2896	114	15 875	35,000
3512B HD	X	2390	94	2896	114	16 798	37,000
3516	X	2390	94	2896	114	18 600	41,000
3516B	X	2390	94	2896	114	18 600	41,000

* 9.37 m (30'9") and 12.4 m (40'9") bases also available.

ELECTRIC DRIVE ENGINE RATINGS

For SCR and DC Powered Rigs

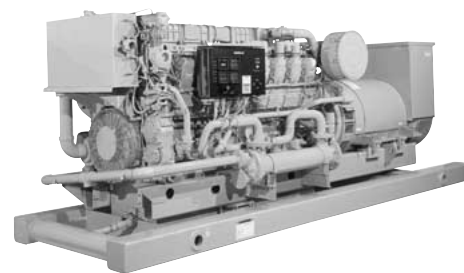
Model	No. Cyl.	60 Hz								50 Hz					
		720 rpm		900 rpm		1200 rpm		1800 rpm		750 rpm		1000 rpm		1500 rpm	
		bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp
C-16	I-6	—	—	—	—	—	—	410	550 ¹	—	—	—	—	—	—
3412E	V-12	—	—	—	—	—	—	560	750 ¹	—	—	—	—	—	—
3412E	V-12	—	—	—	—	373	500 ¹	—	—	—	—	—	—	534	716 ²
3508	V-8	—	—	—	—	641	860	—	—	—	—	—	—	—	—
3508B	V-8	—	—	—	—	682	915 ¹	—	—	—	—	—	—	856	1148 ²
3512	V-12	—	—	—	—	709	950	—	—	—	—	—	—	—	—
3512	V-12	—	—	—	—	1070	1435	—	—	—	—	—	—	—	—
3512B	V-12	—	—	—	—	1102	1477 ³	—	—	—	—	—	—	1257	1686 ²
3512B HD	V-12	—	—	—	—	1200	1610 ³	—	—	—	—	—	—	1500	2015
3516	V-16	—	—	—	—	1344	1802	—	—	—	—	—	—	—	—
3516B	V-16	—	—	—	—	1384	1855 ³	—	—	—	—	—	—	1717	2302 ²
3516B HD	V-16	—	—	—	—	1604	2150 ³	—	—	—	—	—	—	—	—
3606	I-6	1565	2100 ²	1880	2520 ²	—	—	—	—	1645	2210 ²	2010	2700 ²	—	—
3608	I-8	2085	2800 ²	2533	3395 ²	—	—	—	—	2155	2890 ²	2700	3630 ²	—	—
3612	V-12	3130	4200 ²	3802	5096 ²	—	—	—	—	3285	4410 ²	4025	5400 ²	—	—
3616	V-16	4180	5600 ²	4604	6172 ²	—	—	—	—	4315	5790 ²	5415	7260 ²	—	—
12CM32	V-12	5530	7416 ²	—	—	—	—	—	—	5760	7724 ²	—	—	—	—
16CM32	V-16	7380	9899 ²	—	—	—	—	—	—	7680	10300 ²	—	—	—	—

¹ EPA certified

² IMO certified

³ EPA and IMO certified

Requires Separate Circuit Aftercooling (SCAC), without fan power, when emissions compliant.



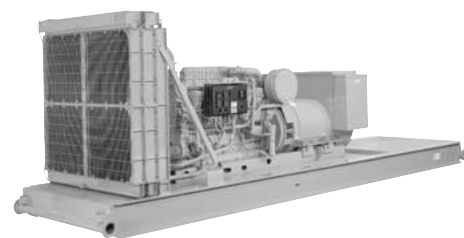
3516B Offshore with SR4B Generator

SCR Power Modules

Guaranteed Performance and Alignment

Since Caterpillar controls the design and testing of the complete Cat power module, you can be assured each package meets published performance data and that your engine and generator will stay in alignment. Ask your Caterpillar dealer for full guarantee details.

A unique three-point mounting system, accommodating single- or two-bearing generators, keeps Cat 3500 Family engines and generators in alignment on uneven surfaces and during typical rig moves. Major generator design improvements include Class H insulation for maximum reliability and durability, form-wound stator coils and Vacuum Pressure Impregnation (VPI).

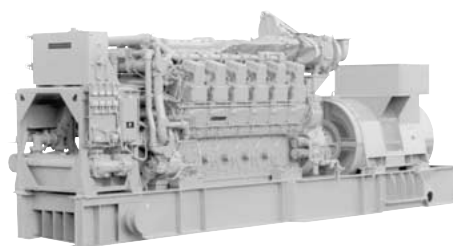


3512B Land Power Module

Rating Definition: The horsepower and speed capability of the engine which can be used to power mud pumps, rotary table and drawworks on a land or offshore electric drive drill rig.

Emissions standards 2001 U.S. EPA non-road for land applications and IMO for the year 2000 as defined by Regulation 13 of Annex VI to the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the protocol of 1978.

Optional ratings available upon request.



3612 Offshore Power Module

Change your engine without changing your engine room.

If you're considering repowering your rig, consider this. Replacing a 6.25-inch bore engine with a new Cat 3500 Family engine is a lot easier and less expensive than you might think. That's because 3500 Family engines have the same centerlines, and share the same installation envelope, as Cat D379, D398 or D399 engines.

A Look at The Numbers

Cost of new 3512 (engine only)	\$ ____
Less market value of D399 core	— \$ ____
Less cost to overhaul D399	— \$ ____
Actual cost of repowering with 3512 =	\$ ____

Diesel Engines for Pumping, Drilling, and Hoisting

Mechanical Drive Prime Movers for Repower or New Rigs

Repowering with Caterpillar engines is a cost-effective way to improve drilling speed and safety. And if more mud pump power is needed for horizontal drilling, 3500 and 3600 Family engines can meet your needs with minimal modifications.

Caterpillar 3500 Family engines fit conveniently into existing rigs because they share the same overall dimensions as their predecessors — the 6.25-inch bore family. Plus, you get all the latest technological advantages.

Ideal for Drawworks Service and Mobile Well Servicing

Caterpillar engines are time-proven in hoisting applications worldwide. They deliver the needed horsepower, as well as the rapid acceleration that reduces trip time, job after job. For low speed operation, Caterpillar options enable you to match existing drawworks designs.

And with their fuel economy, dependability and serviceability, Caterpillar hoisting engines offer low owning and operating costs.

MECHANICAL DRILL RIG RATINGS

Pumping and Drilling Ratings (B Level)					
Model	No. Cyl.	1400 rpm bkW	bhp	1200 rpm bkW	bhp
3412E*	V-12	466	625	—	—
3508**	V-8	—	—	567	760
3508B*	V-8	—	—	567	760
3508B*	V-8	—	—	671	900
3512**	V-12	—	—	783	1050
3512**	V-12	—	—	933	1250
3512B*	V-12	—	—	783	1050
3512B*	V-12	—	—	1044	1400
3516**	V-16	—	—	1230	1649

* 2001 U.S. EPA and IMO certified, Separate Circuit Aftercooling (SCAC), without fan

** Not U.S. EPA and IMO certified, Jacket Water Aftercooling (JWAC), without fan

Diesel Engine Rating Definitions for Industrial Applications

Note: Application examples are for reference only. For an exact determination of the appropriate rating, contact the factory or your local Caterpillar dealer.

Rating Conditions:

All ratings are based on SAE J1349 standard ambient conditions of 100 kPa (29.6 in. Hg), 30% relative humidity and 25° C (77° F). Ratings also apply at AS1501, BS5514, DIN6271, and ISO3046/1 standard conditions. Power is based on API gravity of 35 at 15° C (60° F), fuel having a LHV of 42 780 kJ/kg (18,390 Btu/lb) used at 29° C (84° F) with a density of 838.9 g/L (7.001 lb/U.S. gal). Ratings are the total output capability of the engine equipped with standard accessories: lube oil, fuel oil and jacket water pumps.

A Rating: (Continuous)

- For heavy-duty service when engine is operated at rated load and speed up to 100% of the time without interruption or load cycling.
- Time at full load up to 100% of the duty cycle.
- Typical application examples include pipeline pumping.

B Rating:

- For service where power and/or speed are cyclic.
- Time at full load not to exceed 80% of the duty cycle.
- Typical application examples include oil field mechanical pumping/drilling and stationary/plant air compressors.

C Rating: (Intermittent)

- For service where power and/or speed are cyclic. Horsepower and

speed capability of the engine can be utilized for one uninterrupted hour followed by one hour of operation at or below the A rating.

- Time at full load not to exceed 50% of the duty cycle.
 - Typical application examples include fire pumps, kill pumps, oil field hoisting, and workover rigs.
- ### D Rating:
- For service where rated power is required for periodic overloads. The maximum horsepower and speed capability of the engine can be utilized for a maximum of 30 uninterrupted minutes followed by one hour at the C rating.
 - Time at full load not to exceed 10% of the duty cycle.
 - Typical application examples include off-shore cranes, cementers and fire pump certification power.

E Rating:

- For service where rated power is required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable. Horsepower and speed capability of the engine can be utilized for a maximum of 15 uninterrupted minutes, followed by one hour at the C rating or duration of emergency.
- Time at full load not to exceed 5% of the duty cycle.
- Typical application examples include standby centrifugal water pumps, oil field well servicing, crash trucks and gas turbine starters.