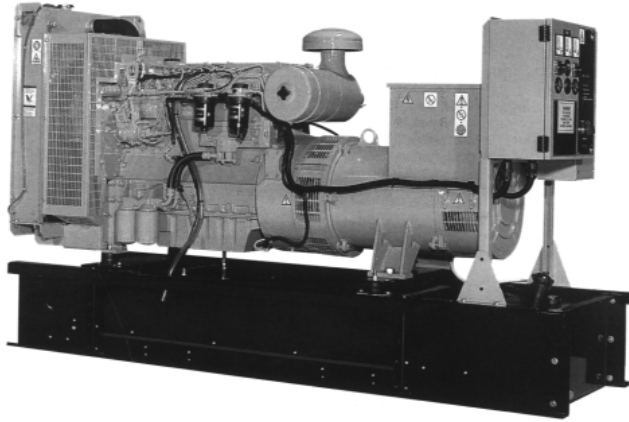


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STANDBY 125 kW

60 Hz

Model	Standby kW (kVA)	Prime kW (kVA)
D90P1	90 (112.5)	82.4 (103)
D100P1	100 (125)	90 (112.5)
D100P2*	100 (125)	90 (112.5)
D125P1	125 (156.3)	114 (142.5)
D125P2*	125 (156.3)	114 (142.5)
D150P1	150 (187.5)	N/A

*EPA Approved, Emissions Certified

FEATURES

GENERATOR SET

- Complete system designed and built at ISO 9001 certified facilities
- Factory tested to design specifications at full load conditions

ENGINE

- Governor, electronic (D125P1, D125P2, D150P1)
- Governor, mechanical (D90P1, D100P1, D100P2)
- Electrical system, 12 VDC
- Cartridge type filters
- Battery(s), rack and cables
- Coolant and lube drains piped to edge of base

GENERATOR

- Insulation system, class H
- Drip proof alternator air intake (NEMA 2, IP23)
- Electrical design in accordance with BS5000 Part 99, IEC34-1, VDE0530, UTE51100, NEMA MG-1.22

CONTROL SYSTEM

- 2001 Autostart control panel
- Vibration isolated NEMA 1 enclosure with lockable hinged door
- DC and AC wiring looms

MOUNTING ARRANGEMENT

- Heavy-duty fabricated steel base with lifting points
- Directly mounted 10 dB(A) silencer
- Complete OSHA guarding
- Flexible fuel lines to base with NPT connections
- Anti-vibration pads to ensure vibration isolation
- Stub-up pipe ready for connection to silencer pipework

COOLING SYSTEM

- Radiator and cooling fan complete with protective guards
- Standard ambient temperatures up to 122° F (50° C)

CIRCUIT BREAKER

- UL/CSA listed
- 3-pole with solid neutral
- NEMA 1 steel enclosure, vibration isolated
- Electrical stub-up area directly below circuit breaker

AUTOMATIC VOLTAGE REGULATOR

- Voltage within ± 0.5% at steady state from no load to full load
- Provides fast recovery from transient load changes

EQUIPMENT FINISH

- All electroplated hardware
- Anticorrosive paint protection
- High gloss polyurethane paint for durability and scuff resistance

QUALITY STANDARDS

- BS4999, BS5000, BS5514, IEC34, VDE0530, NEMA MG-1.22, NFPA 110 (with optional equipment)

DOCUMENTATION

- Operation and maintenance manuals provided
- Wiring diagrams included

WARRANTY

- 12 months from date of initial start-up or 18 months from shipping, whichever occurs first

Materials and specifications are subject to change without notice.

STANDBY 90 - 150 kW
PRIME 82.4 - 114 kW
60 Hz

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OPTIONAL EQUIPMENT*

ENCLOSURE

- B Series weather protective enclosure (includes internal silencer system and 8-hour single-walled fuel tank)
 - Single point lift
 - Panel viewing window
 - External emergency stop pushbutton
- Sound attenuated enclosure (includes internal silencer system)
- Super sound attenuated enclosure (includes internal silencer system) (D90P1, D100P1, D100P2)

SILENCER SYSTEM — OPEN UNIT

- Level 1 “residential”
- Level 2 “critical”
- Level 3 “super critical”
- Mounting kit
- Through-wall installation kits

ENGINE

- Electronic governor (fully adjustable)
- Battery heater
- Lube oil drain pump
- High lube oil temperature shutdown
- Lube oil sump heater

CIRCUIT BREAKER

- Auxiliary voltfree contacts
- Shunt trip (100+ amp breakers)

GENERATOR

- Anti-condensation heater
- Permanent magnet generator
- AREP excitation system
- Alternator upgrade 1 size

CONTROL SYSTEM

- No control system
- 4001 Series Autostart control panel
- 4001E Series Autostart control panel
- Access 4000 digital control panel

FUEL SYSTEM

- Single-walled plastic fuel tank
- UL listed closed top-diked skid-mounted fuel tank base (12/24-hour capacity) with fuel alarm (low level/leak detected)
- Critical high fuel alarm
- Critical low fuel level shutdown
- Skidbase in lieu of tankbase on enclosed sets
- Manual fuel pump

REMOTE ANNUNCIATORS

- 8- and 16-channel remote annunciator panel (supplied loose)
- Remote annunciator upgrade normal/run control switch
- Remote annunciator upgrade lockdown emergency stop button

COOLING SYSTEM

- Coolant heater
- Low coolant temperature alarm
- Low coolant level shutdown
- Radiator transition flange

MISCELLANEOUS ACCESSORIES

- Toolkit
- Additional operator’s manual pack
- Special enclosure color
- CSA certification
- French language labels

EXTENDED WARRANTY

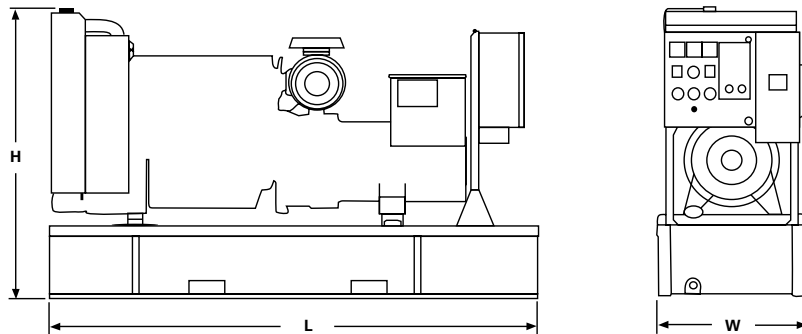
- 24 months
 - 36 months
 - 48 months
 - 60 months
- (See warranty policy for details of coverage)

TESTING

- Factory witness test (restricted to 6 hours — full load, 1.0 pf)

*Some options may not be available on all models. Not all options are listed.

GENERATOR SET DIMENSIONS AND WEIGHTS



Model	Length in (mm)	Width in (mm)	Height in (mm)	Weight lbs (kg)**
D90P1	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D100P1	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D100P2	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D125P1	106 (2700)	35.4 (900)	57.5 (1460)	3124 (1417)
D125P2	106 (2700)	35.4 (900)	57.5 (1460)	3124 (1417)
D150P1	106 (2700)	35.4 (900)	57.5 (1460)	3124 (1417)

NOTE: General configuration not to be used for installation. See specific dimensional drawings for detail.

**Includes oil and coolant

STANDBY 90 - 150 kW
PRIME 82.4 - 114 kW
60 Hz

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SPECIFICATIONS



GENERATOR

Voltage Regulation ±0.5% at steady state from no load to full load
 Frequency ±0.8% for constant load, no load to full load
 Waveform Distortion..... THD < 1.8%, at no load
 Radio Interference Compliance with BS800 and VDE Class G&N
 Telephone Interference TIF <50, THF <2%
 Overspeed Limit..... 2250 rpm
 Insulation Class H
 Temperature Rise Within Class H limits
 Available Voltages..... 277/480, 266/460, 120/240, 127/220, 120/208, 347/600
 Deration Consult factory for available outputs
 Ratings At 86° F (30° C), 500 ft. (152.4 m), 60% humidity, 0.8 pf



ENGINE

Manufacturer Perkins
 Type 4-Cycle
 Cylinder Configuration In-line 6
 Displacement — cu in (L) 366 (6.0)
 Bore — in (mm) 3.94 (100.0)
 Stroke — in (mm) 5.00 (127.0)
 Compression Ratio
 D90P1, D100P1, D100P2, D125P1, D150P1 16.0:1
 D125P2 17.0:1
 Governor
 Type
 D90P1, D100P1, D100P2..... Mechanical
 D125P1, D125P2, D150P1 Electronic
 Class..... A1
 Piston Speed — ft/sec (m/sec) 25.0 (7.62)
 Engine speed — rpm..... 1800
 Air Cleaner Type Dry, replaceable paper element type with restriction indicator
 Regenerative Power — kW..... 16.2

D90P1 — 1006TG1A

Max Power at Rated rpm — hp (kW)
 Standby..... 152 (113)
 Prime 136 (102)
 BMEP — psi (kPa)
 Standby 183 (1259)
 Prime 164 (1133)
 Aspiration Turbocharged

RATING DEFINITIONS

Standby — Applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The generator is peak rated (as defined in ISO8528-3).

D100P1 — 1006TG2A

Max Power at Rated rpm — hp (kW)
 Standby..... 166 (124)
 Prime 151 (112)
 BMEP — psi (kPa)
 Standby 202 (1393)
 Prime 182 (1253)
 Aspiration Turbocharged

D100P2 — 1006-6T

Max Power at Rated rpm — hp (kW)
 Standby..... 166 (124)
 Prime 150 (112)
 BMEP — psi (kPa)
 Standby 200 (1376)
 Prime 182 (1253)
 Aspiration Turbocharged

D125P1 — 1006TAG

Max Power at Rated rpm — hp (kW)
 Standby..... 219 (163)
 Prime 201 (150)
 BMEP — psi (kPa)
 Standby 266 (1836)
 Prime 234 (1610)
 Aspiration..... Turbocharged, AA Charge

D125P2 — 1006TA

Max Power at Rated rpm — hp (kW)
 Standby..... 216 (162)
 Prime 197 (147)
 BMEP — psi (kPa)
 Standby 262 (1799)
 Prime 238 (1635)
 Aspiration..... Turbocharged, AA Charge

D150P1 — 1006TAG1

Max Power at Rated rpm — hp (kW)
 Standby..... 219 (163)
 Prime N/A
 BMEP — psi (kPa)
 Standby 266 (1836)
 Prime N/A
 Aspiration Turbocharged, AA Charge Cooled



CONTROL PANEL

NEMA 1 steel enclosure with lockable hinged door
 Vibration isolated mounted Autostart control panel
 Single location customer connector point
 Electrical stub-up area directly below control panel

Prime — Applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and the generator set can supply 10 percent overload power for 1 hour in 12 hours.

Consult your Olympian representative for more information.

www.CAT-ElectricPower.com

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STANDBY 125 kW
PRIME 114 kW
60 Hz

OLYMPIAN™

D125P1 (3-Phase)

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating	kW (kVA)	125 (156.3)	114 (142.5)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CD 15W-40 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	4.3 (16.1) 3.5 (13.1)	4.3 (16.1) 3.5 (13.1)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	g/hr (L/hr) g/hr (L/hr) g/hr (L/hr)	9.88 (37.40) 7.79 (29.47) 5.51 (20.87)	9.12 (34.51) 6.92 (26.22) 5.01 (18.98)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Alternator Ampere Rating	amps	55	55
Cooling System Water Pump Type: Centrifugal Radiator System Capacity Incl. Engine Maximum Coolant Static Head Coolant Flow Rate Minimum Temperature to Engine Temperature Rise Across Engine Heat Rejected to Coolant at Rated Power Total Heat Radiated to Room at Rated Power Radiator Fan Load	U.S. gal (L) ft H ₂ O (m H ₂ O) U.S. gal/hr (L/hr) °F (°C) °F (°C) Btu/min (kW) Btu/min (kW) hp (kW)	9.8 (37.2) 26.2 (8.0) 2724 (10 320) 169 (76) 14.4 (8.0) 4363 (76.7) 2551 (44.8) 16.5 (12.3)	9.8 (37.2) 26.2 (8.0) 2724 (10 320) 169 (76) 14.4 (8.0) 3885 (68.3) 1720 (30.2) 16.5 (12.3)
Air Requirements Combustion Air Flow Maximum Air Cleaner Restriction Radiator Cooling Air Alternator Cooling Air	cfm (m ³ /min) in H ₂ O (kPa) cfm (m ³ /min) cfm (m ³ /min)	394 (11.2) 20 (5.0) 9100 (258) 985 (27.9)	379 (10.7) 20 (5.0) 9100 (258) 985 (27.9)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	in Hg (kPa) cfm (m ³ /min) °F (°C)	1.8 (6.0) 1109 (31.4) 1024 (551)	1.8 (6.0) 1050 (29.8) 1004 (540)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	97	97

Alternator Technical Data		347/600V	277/480V	266/460V	120/240V 120/208V	127/220V
Motor Starting Capability: (kVA) (30% Voltage Dip)	Self Excited	350	350	320	260	290
	PM Excited**	380	380	355	290	325
	AREP Excited	TBA	TBA	TBA	TBA	TBA
Full Load Efficiencies:	Standby	93.1	93.1	93.0	92.6	92.9
	Prime	93.2	93.2	93.2	92.9	93.1
Reactances (per unit): Reactances shown are applicable to the standby rating.	X _d	2.74	2.74	2.98	3.65	3.26
	X' _d	0.104	0.104	0.115	0.135	0.125
	X'' _d	0.060	0.060	0.066	0.080	0.072
	X _q	1.65	1.65	1.79	2.19	1.96
	X'' _q	0.072	0.072	0.079	0.096	0.086
	X ₂	0.067	0.067	0.072	0.089	0.079
	X ₀	0.005	0.005	0.005	0.005	0.005
Time Constants:	t' _d 0.100 sec	t'' _d 0.010 sec	t' _{do} 2.723 sec	t _a 0.015 sec		

* dB(A) levels are for guidance only

** With PMG Excited Option AR12