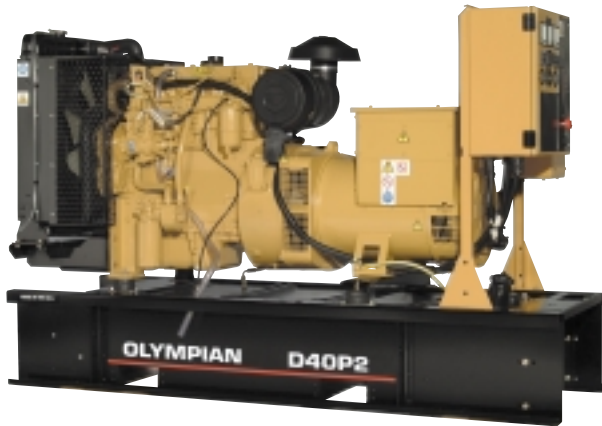


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STANDBY 40-60 kW
PRIME 36-54.5 kW
60 Hz

Model	Standby kW (kVA)	Prime kW (kVA)
D40P3**	40 (50)	36 (45)
D40P2*	40 (50)	36 (45)
D50P3**	50 (62.5)	45 (56.3)
D50P2*	50 (62.5)	45 (56.3)
D60P3**	60 (75)	54.5 (68.2)
D60P2*	60 (75)	54.5 (68.2)

*EPA Approved, Emissions Certified

**50 Hz option is available. Consult factory for more details.

FEATURES

GENERATOR SET

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

ENGINE

- Governor, mechanical
- 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 generator air intake (NEMA 2, IP23)
- Electrical design in accordance with BS5000 Part 99, IEC60034-1, EN61000-6, NEMA MG-1.33

CONTROL SYSTEM

- 2001 Series 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
- Anti-vibration pads to ensure vibration isolation
- Complete OSHA guarding
- Stub-up pipe ready for connection to silencer pipework
- Flexible fuel lines terminated at skid base with NPT connections

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 $\pm 0.5\%$ 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, IEC60034, EN61000-6, NEMA MG-1.33, NFPA 110 (with optional equipment)

DOCUMENTATION

- Operation and maintenance manuals provided
- Wiring diagrams included

WARRANTY

- All equipment carries full manufacturer's warranty
Extended warranty terms available

Materials and specifications are subject to change without notice.

STANDBY 40 - 60 kW
PRIME 36 - 54.5 kW
60 Hz

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OPTIONAL EQUIPMENT*

ENCLOSURE

- B Series weather protective enclosure (includes internal silencer system)
 - 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)

SILENCER SYSTEM — OPEN UNIT

- Level 1 silencer
- Level 2 silencer
- Level 3 silencer
- 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

GENERATOR

- Anti-condensation heater
- Permanent magnet generator (3 Phase only)
- AREP excitation system
- Generator upgrade 1 size

CONTROL SYSTEM

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

MOUNTING ACCESSORIES

- Seismic (Zone 4) vibration isolators

FUEL SYSTEM

- Metal 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
- Low fuel level alarm

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
- UL listing
- CSA certification
- French or Spanish language labels

EXTENDED WARRANTY

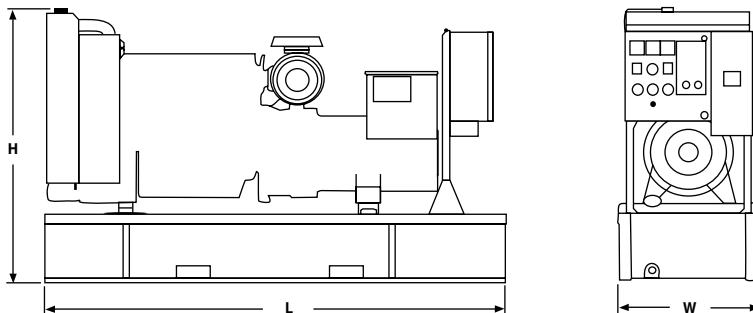
- 36 months
 - 48 months
 - 60 months
- (See warranty policy for details of coverage)

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)**
D40P3	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1804 (820)
D40P2	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1804 (820)
D50P3	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1881 (855)
D50P2	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1881 (855)
D60P3	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1991 (905)
D60P2	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1991 (905)

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

**Includes oil and coolant

STANDBY 40 - 60 kW
PRIME 36 - 54.5 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%/±0.25% for constant load, no load to full load
 Waveform Distortion THD < 4%, at no load
 Radio Interference Compliance with EN61000-6
 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 4
 Displacement — cu in (L) 243 (3.99)
 Bore — in (mm) 3.94 (100)
 Stroke — in (mm) 5.00 (127.0)
 Governor
 Type Mechanical
 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

D40P3 — 1004G

Aspiration Natural
 Compression Ratio 16.0:1
 Max Power at Rated rpm — hp (kW)
 Standby 70.5 (52.5)
 Prime 64 (48)
 BMEP — psi (kPa)
 Standby..... 127 (877)
 Prime 116 (802)
 Regenerative Power — kW 10.5

D40P2 — 1004GEPA

Aspiration Natural
 Compression Ratio 16.0:1
 Max Power at Rated rpm — hp (kW)
 Standby 75.1 (56)
 Prime 67.6 (50.4)
 BMEP — psi (kPa)
 Standby..... 136 (936)
 Prime 122 (842)
 Regenerative Power — kW 12.6

D50P3, D60P3 — 1004TG2

Aspiration..... Turbocharged
 Compression Ratio 16.0:1
 Max Power at Rated rpm — hp (kW)
 Standby..... 122 (91)
 Prime 111 (82.7)
 BMEP — psi (kPa)
 Standby..... 220.6 (1383)
 Prime 200.5 (1382.9)
 Regenerative Power — kW 12.7

D50P2, D60P2 — 1004-40T

Aspiration..... Turbocharged
 Compression Ratio 17.25:1
 Max Power at Rated rpm — hp (kW)
 Standby..... 95.2 (71.0)
 Prime 86.5 (64.5)
 BMEP — psi (kPa)
 Standby..... 172 (1185)
 Prime 156 (1076)
 Regenerative Power — kW 12.6



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

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).

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 40 kW
PRIME 36 kW
60 Hz

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D40P2 (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)	40 (50)	36 (45)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CF-4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	2.2 (8.5) 1.8 (6.9)	2.2 (8.5) 1.8 (6.9)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	3.57 (13.5) 2.38 (9.0) 1.6 (6.1)	3.04 (11.5) 2.04 (7.89) 1.76 (6.67)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
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)	5.5 (21.0) 20.3 (6.2) 1537 (5820) 158 (70) 13.9 (7.7) 2275 (40.0) 1050 (18.5) 2.4 (1.8)	5.5 (21.0) 20.3 (6.2) 1537 (5820) 158 (70) 13.9 (7.7) 2040 (35.9) 950 (16.7) 2.4 (1.8)
Air Requirements Combustion Air Flow Maximum Air Cleaner Restriction Radiator Cooling Air (zero restriction) Generator Cooling Air Allowable Air Flow Restriction (After radiator) Cooling Airflow (@ rated speed) Rate with restriction	Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min) Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min)	111 (3.15) 8 (2) 6356 (180) 678 (19.2) 0.48 (0.120) 5932 (168)	112.5 (3.19) 8 (2) 6356 (180) 678 (19.2) 0.48 (0.120) 5932 (168)
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)	1.5 (5.0) 343 (9.7) 1274 (690)	1.5 (5.0) 322 (9.1) 1130 (610)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	96	96

Generator Technical Data	277/480V	266/460V	127/220V	120/240V 120/208V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)					
Self Excited	99	91	84	75	N/A
PM Excited**	130	118	109	98	130
AREP Excited	130	118	109	98	130
Full Load Efficiencies:					
Standby	89.1	89.1	88.8	88.3	89.1
Prime	89.4	89.4	89.2	88.8	89.4
Reactances (per unit):					
X _d	2.63	2.87	3.13	3.51	2.63
X' _d	0.11	0.12	0.13	0.15	0.11
X'' _d	0.057	0.062	0.067	0.075	0.057
X _q	1.58	1.72	1.88	2.10	1.58
X'' _q	0.073	0.080	0.087	0.098	0.073
X ₂	0.064	0.070	0.077	0.080	0.064
X ₀	0.006	0.006	0.007	0.007	0.006
Time Constants:	t' _d 50 ms	t'' _d 5 ms	t' _{do} 1131 ms	t _a 8 ms	

STANDBY 40 kW
PRIME 36 kW
60 Hz

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D40P3 (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)	40 (50)	36 (45)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CF-4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	2.1 (8.1) 1.8 (6.9)	2.1 (8.1) 1.8 (6.9)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	3.78 (14.34) 2.83 (10.76) 1.89 (7.17)	3.43 (13.04) 2.58 (9.78) 1.72 (6.52)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
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)	4.14 (15.7) 6.7 (2.0) 1791 (6660) 158 (70) 13.8 (7.7) 2219 (44) 961 (9.5) 5.5 (4.1)	4.14 (15.7) 6.7 (2.0) 1791 (6660) 158 (70) 13.8 (7.7) 1991 (38) 853 (6) 5.5 (4.1)
Air Requirements Combustion Air Flow Maximum Air Cleaner Restriction Radiator Cooling Air (zero restriction) Generator Cooling Air Allowable Air Flow Restriction (After radiator) Cooling Airflow (@ rated speed) Rate with restriction	Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min) Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min)	111 (3.15) 7.9 (2.0) 8236 (234) 678 (19.2) 0.48 (0.120) 6886 (195)	112.5 (3.19) 7.9 (2.0) 8236 (234) 678 (19.2) 0.48 (0.120) 6886 (195)
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)	1.5 (5) 343 (9.7) 1274 (690)	1.5 (5) 321 (9.09) 1130 (610)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	97	97

Generator Technical Data	277/480V	266/460V	127/220V	120/240V 120/208V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)					
Self Excited	99	91	84	75	N/A
PM Excited**	130	118	109	98	130
AREP Excited	130	118	109	98	130
Full Load Efficiencies:					
Standby	89.1	89.1	88.8	88.3	89.1
Prime	89.4	89.4	89.2	88.8	89.4
Reactances (per unit):					
X _d	2.63	2.87	3.13	3.51	2.63
X' _d	0.11	0.12	0.13	0.15	0.11
X'' _d	0.057	0.062	0.067	0.075	0.57
X _q	1.58	1.72	1.88	2.10	1.58
X'' _q	0.073	0.080	0.087	0.098	0.073
X ₂	0.064	0.070	0.077	0.080	0.064
X ₀	0.006	0.006	0.007	0.007	0.006
Time Constants:	t' _d 50 ms	t'' _d 5 ms	t' _{do} 1131 ms	t _a 8 ms	

* dB(A) levels are for guidance only
 ** With PMG Excited Option AVR12

STANDBY 50 kW
PRIME 45 kW
60 Hz

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D50P2 (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)	50 (62.5)	45 (56.3)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CF-4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	2.2 (8.4) 1.88 (7.1)	2.2 (8.4) 1.88 (7.1)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	4.73 (17.90) 3.68 (13.94) 2.70 (10.23)	4.27 (16.17) 3.38 (12.8) 2.57 (9.7)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
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)	5 (18.8) 14.1 (4.3) 2932 (11100) 158 (70) 13.8 (7.7) 2645 (45.9) 1428 (7.1) 5.1 (3.8)	5 (18.8) 14.1 (4.3) 2932 (11100) 158 (70) 13.8 (7.7) 2400 (41.7) 1308 (6.4) 5.1 (3.8)
Air Requirements Combustion Air Flow Maximum Air Cleaner Restriction Radiator Cooling Air (zero restriction) Generator Cooling Air Allowable Air Flow Restriction (After radiator) Cooling Airflow (@ rated speed) Rate with restriction	Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min) Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min)	166 (4.7) 32 (8.0) 6356 (180) 678 (19.2) 0.48 (0.120) 5932 (168)	162.4 (4.6) 32 (8.0) 6356 (180) 678 (19.2) 0.48 (0.120) 5932 (168)
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)	3 (10.2) 459 (13.0) 1229 (665)	3 (10.2) 430.8 (12.2) 1157 (625)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	92	92

Generator Technical Data	277/480V	266/460V	127/220V	120/240V 120/208V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)					
Self Excited	118	108	99	89	N/A
PM Excited**	161	140	129	114	161
AREP Excited	161	140	129	114	161
Full Load Efficiencies:					
Standby	89.0	89.0	89.0	88.8	89.0
Prime	89.3	89.8	89.7	89.4	89.3
Reactances (per unit):					
X _d	2.85	3.10	3.39	3.79	2.85
X' _d	0.11	0.12	0.13	0.15	0.11
X'' _d	0.059	0.064	0.070	0.078	0.059
X _q	1.71	1.86	2.04	2.28	1.71
X'' _q	0.075	0.082	0.089	0.100	0.075
X ₂	0.68	0.073	0.080	0.090	0.068
X ₀	0.006	0.007	0.007	0.008	0.006
Time Constants:	t' _d 50 ms	t'' _d 5 ms	t' _{do} 1177 ms	t _a 8 ms	

STANDBY 50 kW
PRIME 45 kW
60 Hz

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D50P3 (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)	50 (62.5)	45 (56.3)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CF-4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	2.2 (8.1) 1.8 (6.9)	2.2 (8.1) 1.8 (6.9)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	4.99 (18.96) 3.75 (14.22) 2.50 (9.48)	4.54 (17.23) 3.40 (12.92) 2.27 (8.62)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
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)	5.2 (19.7) 9.84 (3.0) 1870 (5820) 158 (70) 13.8 (7.7) 2105 (52) 1257 (22.3) 6.0 (4.5)	5.2 (19.7) 9.84 (3.0) 1870 (5820) 158 (70) 13.8 (7.7) 1820 (47) 1194 (18.6) 6.0 (4.5)
Air Requirements Combustion Air Flow Maximum Air Cleaner Restriction Radiator Cooling Air (zero restriction) Generator Cooling Air Allowable Air Flow Restriction (After radiator) Cooling Airflow (@ rated speed) Rate with restriction	Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min) Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min)	2175 (6.16) 20 (5.0) 9958 (282) 678 (19.2) 0.48 (0.120) 6356 (180)	207 (5.85) 20 (5.0) 9958 (282) 678 (19.2) 0.48 (0.120) 6356 (180)
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)	1.03 (3.5) 600.3 (17.0) 1018 (548)	1.03 (3.5) 561.5 (15.9) 952 (511)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	97	97

Generator Technical Data	277/480V	266/460V	127/220V	120/240V 120/208V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)					
Self Excited	118	108	99	89	N/A
PM Excited**	161	140	129	114	161
AREP Excited	161	140	129	114	161
Full Load Efficiencies:					
Standby	89.0	89.0	89.0	88.8	89.0
Prime	89.3	89.8	89.7	89.4	89.3
Reactances (per unit):					
X _d	2.85	3.10	3.39	3.79	2.85
X' _d	0.11	0.12	0.13	0.15	0.11
X'' _d	0.059	0.064	0.070	0.078	0.059
X _q	1.71	1.86	2.04	2.28	1.71
X'' _q	0.075	0.082	0.089	0.100	0.075
X ₂	0.68	0.073	0.080	0.090	0.068
X ₀	0.006	0.007	0.007	0.008	0.006
Time Constants:	t' _d 50 ms	t'' _d 5 ms	t' _{do} 1177 ms	t _a 8 ms	

STANDBY 60 kW
PRIME 54.5 kW
60 Hz

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D60P2 (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)	60 (75.0)	54.5 (68.2)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CF-4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	2.2 (8.4) 1.88 (7.1)	2.2 (8.4) 1.88 (7.1)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	4.73 (17.90) 3.68 (13.94) 2.70 (10.23)	4.27 (16.17) 3.38 (12.8) 2.57 (9.7)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
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)	5 (18.8) 14.1 (4.3) 2932 (11100) 158 (70) 13.8 (7.7) 2645 (45.9) 1428 (7.1) 5.1 (3.8)	5 (18.8) 14.1 (4.3) 2932 (11100) 158 (70) 13.8 (7.7) 2400 (41.7) 1308 (6.4) 5.1 (3.8)
Air Requirements Combustion Air Flow Maximum Air Cleaner Restriction Radiator Cooling Air (zero restriction) Generator Cooling Air Allowable Air Flow Restriction (After radiator) Cooling Airflow (@ rated speed) Rate with restriction	Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min) Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min)	166 (4.7) 32 (8.0) 6356 (180) 678 (19.2) 0.48 (0.120) 5932 (168)	162.4 (4.6) 32 (8.0) 6356 (180) 678 (19.2) 0.48 (0.120) 5932 (168)
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)	3 (10.2) 459 (13.0) 1229 (665)	3 (10.2) 430.8 (12.2) 1157 (625)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	92	92

Generator Technical Data	277/480V	266/460V	127/220V	120/240V 120/208V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)					
Self Excited	166	152	139	125	N/A
PM Excited**	215	198	183	162	215
AREP Excited	215	198	183	162	215
Full Load Efficiencies:					
Standby	91.1	90.9	90.7	90.2	91.1
Prime	91.3	91.2	91.0	90.6	91.3
Reactances (per unit):					
X _d	2.75	2.99	3.27	3.66	2.75
X' _d	0.10	0.11	0.12	0.13	0.10
X'' _d	0.050	0.055	0.060	0.067	0.050
X _q	1.65	1.79	1.96	2.19	1.65
X'' _q	0.063	0.069	0.075	0.084	0.063
X ₂	0.057	0.062	0.068	0.076	0.057
X ₀	0.005	0.006	0.006	0.007	0.005
Time Constants:	t' _d 50 ms	t'' _d 5 ms	t' _{do} 1354 ms	t _a 8 ms	

* dB(A) levels are for guidance only
 ** With PMG Excited Option AVR12

STANDBY 60 kW
PRIME 54.5 kW
60 Hz

OLYMPIAN™

Exclusively from your Caterpillar® dealer

D60P3 (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)	60 (75.0)	54.5 (68.2)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CF-4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	2.2 (8.1) 1.8 (6.9)	2.2 (8.1) 1.8 (6.9)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	4.99 (18.96) 3.75 (14.22) 2.50 (9.48)	4.54 (17.23) 3.40 (12.92) 2.27 (8.62)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
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)	5.2 (19.7) 9.84 (3.0) 1870 (5820) 158 (70) 13.8 (7.7) 2105 (52) 1257 (22.3) 6.0 (4.5)	5.2 (19.7) 9.84 (3.0) 1870 (5820) 158 (70) 13.8 (7.7) 1820 (47) 1194 (18.6) 6.0 (4.5)
Air Requirements Combustion Air Flow Maximum Air Cleaner Restriction Radiator Cooling Air (zero restriction) Generator Cooling Air Allowable Air Flow Restriction (After radiator) Cooling Airflow (@ rated speed) Rate with restriction	Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min) Cfm (m ³ /min) In H ₂ O (kPa) Cfm (m ³ /min)	2175 (6.16) 20 (5.0) 9958 (282) 678 (19.2) 0.48 (0.120) 6356 (180)	207 (5.85) 20 (5.0) 9958 (282) 678 (19.2) 0.48 (0.120) 6356 (180)
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)	1.03 (3.5) 600.3 (17.0) 1018 (548)	1.03 (3.5) 561.5 (15.9) 952 (511)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	97	97

Generator Technical Data	277/480V	266/460V	127/220V	120/240V 120/208V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)					
Self Excited	166	152	139	125	N/A
PM Excited**	215	198	183	162	215
AREP Excited	215	198	183	162	215
Full Load Efficiencies:					
Standby	91.1	90.9	90.7	90.2	91.1
Prime	91.3	91.2	91.0	90.6	91.3
Reactances (per unit):					
X _d	2.75	2.99	3.27	3.66	2.75
X' _d	0.10	0.11	0.12	0.13	0.10
X'' _d	0.050	0.055	0.060	0.067	0.050
X _q	1.65	1.79	1.96	2.19	1.65
X'' _q	0.063	0.069	0.075	0.084	0.063
X ₂	0.057	0.062	0.068	0.076	0.057
X ₀	0.005	0.006	0.006	0.007	0.005
Time Constants:	t' _d 50 ms	t'' _d 5 ms	t' _{do} 1354 ms	t _a 8 ms	

* dB(A) levels are for guidance only
 ** With PMG Excited Option AVR12