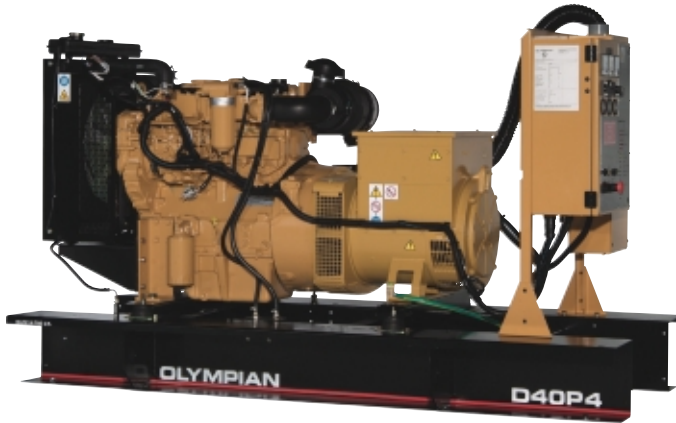


Exclusively from your Caterpillar® dealer



STANDBY 25-60 kW PRIME 22.5-54.6 kW 60 Hz

Model	Standby kW (kVA)	Prime kW (kVA)
D25P4	25 (31.3)	22.8 (28.5)
D25P4S	25 (25)	22.5 (22.5)
D30P6	30 (37.5)	27 (33.8)
D30P4S	30 (30)	27 (27)
D40P4	40 (50)	36 (45)
D40P4S	40 (40)	36 (36)
D50P4	50 (62.5)	45 (56.3)
D50P4S	50 (50)	45 (45)
D60P4	60 (75)	54.6 (68.2)

All models are Tier II EPA Approved, Emissions certified. 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(ies), 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 harnesses

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 $\pm 0.5\%$ 3 Phase and $\pm 1.0\%$ Single Phase 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

STANDBY
PRIME
60 Hz

25 - 60 kW
22.5 - 54.6 kW

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OPTIONAL EQUIPMENT*

ENCLOSURE

- B Series weather protective enclosure (includes internal silencer system)
 - 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
- Battery heater
- Lube oil drain pump
- Lube oil sump heater

CIRCUIT BREAKER

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

MOUNTING ACCESSORIES

- Seismic (Zone 4) vibration isolators

GENERATOR

- Anti-condensation heater
- AREP excitation system (D25P4, D30P6, D40P4, D50P4, D60P4)
- Generator upgrade 1 size (D25P4, D30P6, D40P4, D50P4, D60P4)

CONTROL SYSTEM

- No control system
- 4001 Autostart control panel
- 4001E Autostart control panel

FUEL SYSTEM

- Single-walled steel fuel tank
- UL listed closed top-diked skid-mounted fuel tank base (24-hour capacity) with fuel alarm (low level/leak detected)
- Critical high fuel alarm
- Low fuel level alarm and shutdown

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 SERVICE CONTRACTS

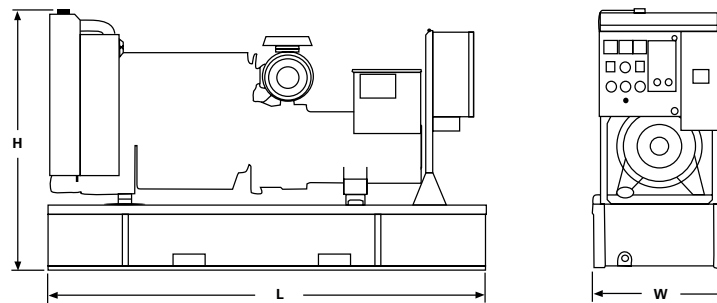
- Extended Service Coverage available

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)**
D25P4	86.9 (2208)	39.4 (1000)	49.3 (1252)	1771 (805)
D25P4S	86.9 (2208)	39.4 (1000)	49.3 (1252)	1771 (805)
D30P6	86.9 (2208)	39.4 (1000)	49.3 (1252)	1793 (815)
D30P4S	86.9 (2208)	39.4 (1000)	49.3 (1252)	1793 (815)
D40P4	86.9 (2208)	39.4 (1000)	49.3 (1252)	1914 (870)
D40P4S	86.9 (2208)	39.4 (1000)	49.3 (1252)	1914 (870)
D50P4	86.9 (2208)	39.4 (1000)	49.3 (1252)	1991 (905)
D50P4S	86.9 (2208)	39.4 (1000)	49.3 (1252)	1947 (885)
D60P4	86.9 (2208)	39.4 (1000)	49.3 (1252)	2101 (955)

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

Dimensions and weights shown are for the open skid configuration.

**Includes oil and coolant

STANDBY
PRIME
60 Hz

25 - 60 kW
22.5 - 54.6 kW

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SPECIFICATIONS



GENERATOR

Voltage Regulation ±0.5% 3PH and ±1% Single PH
 at steady state from no load to full load
 Frequency ±0.8% 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 1-Phase — 120/240,
 115/230, 110/220
 3-Phase — 277/480, 120/240,
 127/220, 120/208
 Deration Consult factory for available outputs
 Ratings At 86° F (30° C), 500 ft. (152.4 m), 60%
 humidity, 1.0 pf (1-Phase), 0.8 pf (3-Phase)



ENGINE

Manufacturer Perkins
 Type 4-Cycle
 Aspiration Natural/Turbo
 Stroke — in (mm) 5.0 (127)
 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

D25P4, D25P4S, D30P6, D30P4S, D40P4, D40P4S — 1104-44G

Cylinder Configuration In-Line-4
 Displacement — cu in (L) 269 (4.4)
 Bore — in (mm) 4.13 (105)
 Compression Ratio 19.3:1
 Governor
 Type Mechanical & Electrical
 Class G2 & G3
 Max Power at Rated rpm — hp (kW)
 Standby 65.6 (49)
 Prime 58.2 (43.5)
 BMEP — psi (kPa)
 Standby 108.6 (749)
 Prime 92.5 (638)
 Regenerative Power — kW 10.7

D50P4, D50P4S, D60P4 — 1104C-44TG1

Cylinder Configuration In-Line-4
 Displacement — cu in (L) 269 (4.4)
 Bore — in (mm) 4.13 (105)
 Compression Ratio 18.2:1
 Governor
 Type Mechanical & Electrical
 Class G2 & G3
 Max Power at Rated rpm — hp (kW)
 Standby 94.5 (70.5)
 Prime 85.1 (63.5)
 BMEP — psi (kPa)
 Standby 155 (1070)
 Prime 139.2 (960)
 Regenerative Power — kW 13.7



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
PRIME
60 Hz

25 kW
22.8 kW

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D25P4 (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)	25 (31.3)	22.8 (28.5)
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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	2.0 (7.6) 1.6 (6.0) 1.2 (4.5)	1.9 (7.0) 1.5 (5.6) 1.1 (4.2)
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)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1069 (18.8) 830 (14.6) 1.34 (1.0)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 990 (17.4) 836 (14.7) 1.34 (1.0)
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)	129 (3.65) 26.5 (6.6) 4280 (121) 382 (10.8) 0.5 (0.12) 3453 (97.8)	129 (3.65) 26.5 (6.6) 4280 (121) 382 (10.8) 0.5 (0.12) 3453 (97.8)
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)	4.43 (15) 338 (9.58) 1164 (629)	4.43 (15) 311 (8.80) 1040 (560)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	92.9	92.8

Generator Technical Data		277/480V	127/220V 120/208V	120/240V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)	Self Excited	67	58	53	67
	AREP Excited	84	68	62	84
Full Load Efficiencies:	Standby	89.7	89.3	88.8	89.7
	Prime	89.1	89.5	89.2	89.1
Reactances (per unit): Reactances shown are applicable to the standby rating.	X _d	1.89	2.25	2.52	1.89
	X' _d	0.10	0.12	0.14	0.10
	X'' _d	0.052	0.062	0.069	0.052
	X _q	0.95	1.13	1.26	0.95
	X'' _q	0.073	0.087	0.098	0.073
	X ₂	0.064	0.076	0.085	0.064
	X ₀	0.005	0.006	0.007	0.005
Time Constants:	t'd	t''d	t'do	ta	
	25 ms	2.5 ms	452 ms	4 ms	

* dB(A) levels are for guidance only

STANDBY
PRIME
60 Hz

25 kW
22.5 kW

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D25P4S (1-Phase)

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating	kW (kVA)	25 (25)	22.5 (22.5)
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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	2.0 (7.7) 1.6 (6.1) 1.2 (4.5)	1.9 (7.0) 1.5 (5.6) 1.1 (4.2)
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)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1098 (19.3) 853 (15.0) 1.34 (1.0)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 995 (17.5) 853 (15.0) 1.34 (1.0)
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)	129 (3.65) 26.5 (6.6) 4280 (121) 382 (10.8) 0.5 (0.12) 3453 (97.8)	129 (3.65) 26.5 (6.6) 4280 (121) 382 (10.8) 0.5 (0.12) 3453 (97.8)
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)	4.43 (15) 338 (9.58) 1164 (629)	4.43 (15) 311 (8.80) 1040 (560)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	92.9	92.8

Generator Technical Data	120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip) Self Excited	40	38	35
Full Load Efficiencies: Standby Prime	88.0 88.2	86.7 87.5	86.0 86.8
Reactances (per unit): Reactances shown are applicable to the standby rating.	X _d X' _d X'' _d X _q X'' _q	2.27 0.27 0.136 1.13 0.192	2.48 0.30 0.149 1.24 0.210
Time Constants:	t' _d 40 ms	t'' _d 6 ms	t' _{do} 380 ms t _a 8 ms

* dB(A) levels are for guidance only

STANDBY
PRIME
60 Hz

30 kW
27 kW

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D30P6 (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)	30 (37.5)	27 (33.8)
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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	2.3 (8.9) 1.8 (6.9) 1.3 (5.0)	2.1 (8.1) 1.7 (6.3) 1.2 (4.7)
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)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1246 (21.9) 808 (14.2) 1.34 (1.0)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1132 (19.9) 808 (14.2) 1.34 (1.0)
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)	128 (3.63) 26.5 (6.6) 4280 (121) 382 (10.8) 0.5 (0.12) 3453 (97.8)	129 (3.64) 26.5 (6.6) 4280 (121) 382 (10.8) 0.5 (0.12) 3453 (97.8)
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)	4.43 (15) 338 (9.58) 1164 (629)	4.43 (15) 311 (8.80) 1040 (560)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	93.1	93

Generator Technical Data	277/480V	127/220V 120/208V	120/240V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)				
Self Excited	70	61	55	70
AREP Excited	85	73	66	85
Full Load Efficiencies:				
Standby	90.0	89.4	88.8	90.0
Prime	90.2	89.8	89.3	90.2
Reactances (per unit):				
X _d	2.21	2.63	2.94	2.21
X' _d	0.12	0.14	0.16	0.12
X'' _d	0.059	0.070	0.078	0.059
X _q	1.10	1.31	1.47	1.10
X'' _q	0.082	0.098	0.109	0.082
X ₂	0.070	0.084	0.094	0.070
X ₀	0.005	0.006	0.007	0.005
Time Constants:	t'd	t''d	t'do	ta
	25 ms	2.5 ms	469 ms	4 ms

* dB(A) levels are for guidance only

STANDBY
PRIME
60 Hz

30 kW
27 kW

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D30P4S (1-Phase)

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating	kW (kVA)	30 (30)	27 (27)
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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	2.3 (8.8) 1.8 (7.0) 1.4 (5.1)	2.1 (8.1) 1.7 (6.4) 1.3 (4.7)
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)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1257 (22.1) 796 (14.0) 1.34 (1.0)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1149 (20.2) 813 (14.3) 1.34 (1.0)
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)	128 (3.63) 26.5 (6.6) 4280 (121) 382 (10.8) 0.5 (0.12) 3453 (97.8)	129 (3.64) 26.5 (6.6) 4280 (121) 382 (10.8) 0.5 (0.12) 3453 (97.8)
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)	4.43 (15) 338 (9.58) 1164 (629)	4.43 (15) 311 (8.80) 1040 (560)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	93.1	93

Generator Technical Data	120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip) Self Excited	61	58	54
Full Load Efficiencies: Standby Prime	89.4 89.4	88.9 88.9	87.8 87.8
Reactances (per unit): Reactances shown are applicable to the standby rating.	X _d X' _d X'' _d X _q X'' _q	1.66 0.19 0.102 0.90 0.142	1.97 0.22 0.112 0.99 0.155
Time Constants:	t'd 40 ms	t''d 6 ms	t'do 400 ms ta 8 ms

* dB(A) levels are for guidance only

S T A N D B Y
P R I M E
6 0 H z

4 0 k W
3 6 k W

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D40P4 (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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	3.1 (11.6) 2.3 (8.9) 1.7 (6.3)	2.8 (10.5) 2.1 (8.1) 1.5 (5.8)
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)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1610 (28.3) 785 (13.8) 1.34 (1.0)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1456 (25.6) 785 (13.8) 1.34 (1.0)
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)	127 (3.59) 26.5 (6.6) 4280 (121) 678 (19.2) 0.5 (0.12) 3453 (97.8)	127 (3.60) 26.5 (6.6) 4280 (121) 678 (19.2) 0.5 (0.12) 3453 (97.8)
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)	4.43 (15) 338 (9.58) 1164 (629)	4.43 (15) 311 (8.80) 1040 (560)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	93.5	93.3

Generator Technical Data	277/480V	127/220V 120/208V	120/240V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)				
Self Excited	98	84	76	98
AREP Excited	128	110	100	128
PMG	128	110	100	128
Full Load Efficiencies:				
Standby	88.9	88.4	87.8	88.9
Prime	89.2	88.8	88.5	89.2
Reactances (per unit):				
X _d	2.65	3.16	3.53	2.65
X' _d	0.12	0.14	0.16	0.12
Reactances shown are applicable to the standby rating.				
X'' _d	0.059	0.070	0.078	0.059
X _q	1.59	1.89	2.12	1.59
X'' _q	0.073	0.087	0.098	0.073
X ₂	0.066	0.078	0.087	0.066
X ₀	0.004	0.005	0.006	0.004
Time Constants:	t'd	t''d	t'do	ta
	50 ms	5 ms	1131 ms	8 ms

* dB(A) levels are for guidance only

STANDBY
PRIME
60 Hz

40 kW
36 kW

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D40P4S (1-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 (40)	36 (36)
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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	3.2 (12.0) 2.5 (9.3) 1.8 (6.6)	2.9 (10.9) 2.2 (8.5) 1.6 (6.1)
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)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1695 (29.8) 882 (15.5) 1.34 (1.0)	3.37 (12.8) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 1541 (27.1) 887 (15.6) 1.34 (1.0)
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)	126 (3.58) 26.5 (6.6) 4280 (121) 678 (19.2) 0.5 (0.12) 3453 (97.8)	127 (3.59) 26.5 (6.6) 4280 (121) 678 (19.2) 0.5 (0.12) 3453 (97.8)
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)	4.43 (15) 338 (9.58) 1164 (629)	4.43 (15) 311 (8.80) 1040 (560)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	93.5	93.3

Generator Technical Data	120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip) Self Excited PMG	70 70	65 65	60 60
Full Load Efficiencies: Standby Prime	84.6 84.6	83.7 83.7	82.7 82.7
Reactances (per unit): Reactances shown are applicable to the standby rating.	X _d X' _d X'' _d X _q X'' _q	2.35 0.22 0.121 1.53 0.152	2.79 0.26 0.132 1.68 0.166
Time Constants:	t'd 80 ms	t''d 7 ms	t'do 1131 ms ta 12 ms

* dB(A) levels are for guidance only

S T A N D B Y
P R I M E
6 0 H z

5 0 k W
4 5 k W

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D50P4 (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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	4.2 (16.0) 3.1 (11.7) 2.4 (9.3)	3.7 (14.1) 2.9 (10.8) 2.4 (9.0)
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)	8.22 (13.1) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 2713 (47.7) 1126 (19.8) 3.75 (2.8)	8.22 (13.1) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 2406 (42.3) 944 (16.6) 3.75 (2.8)
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)	187 (5.29) 32.1 (8.0) 5042 (143) 678 (19.2) 0.5 (0.12) 4724 (134)	186 (5.26) 32.1 (8.0) 5042 (143) 678 (19.2) 0.5 (0.12) 4724 (134)
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)	4.43 (15) 487.1 (13.8) 1108 (594)	4.43 (15) 462.4 (13.1) 1015 (544)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	91.7	91.8

Generator Technical Data	277/480V	127/220V 120/208V	120/240V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)				
Self Excited	115	99	90	115
AREP Excited	150	130	118	150
PMG	150	130	118	150
Full Load Efficiencies:				
Standby	88.9	88.5	87.9	88.9
Prime	89.3	88.8	88.4	89.3
Reactances (per unit):				
X _d	2.86	3.41	3.81	2.86
X' _d	0.12	0.14	0.16	0.12
X'' _d	0.061	0.073	0.081	0.061
X _q	1.72	2.04	2.29	1.72
X'' _q	0.076	0.090	0.101	0.076
X ₂	0.068	0.081	0.091	0.068
X ₀	0.005	0.006	0.007	0.005
Time Constants:	t'd	t''d	t'do	ta
	50 ms	5 ms	1171 ms	8 ms

* dB(A) levels are for guidance only

STANDBY
PRIME
60 Hz

50 kW
45 kW

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D50P4S (1-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 (50)	45 (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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	4.5 (16.9) 3.3 (12.3) 2.5 (9.5)	3.9 (14.7) 3.0 (11.3) 2.4 (9.2)
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)	8.22 (13.1) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 2946 (51.8) 1422 (25.0) 3.75 (2.8)	8.22 (13.1) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 2582 (45.4) 1183 (20.8) 3.75 (2.8)
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)	188 (5.32) 32.1 (8.0) 5042 (143) 678 (19.2) 0.5 (0.12) 4724 (134)	186 (5.28) 32.1 (8.0) 5042 (143) 678 (19.2) 0.5 (0.12) 4724 (134)
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)	4.43 (15) 487.1 (13.8) 1108 (594)	4.43 (15) 462.4 (13.1) 1015 (544)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	91.7	91.8

Generator Technical Data	120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip) Self Excited PMG	70 70	65 65	60 60
Full Load Efficiencies: Standby Prime	83.7 84.6	82.7 83.7	81.6 82.7
Reactances (per unit): Reactances shown are applicable to the standby rating.	X _d X' _d X'' _d X _q X'' _q	2.93 0.28 0.139 1.76 0.174	3.19 0.30 0.151 1.92 0.190
Time Constants:	t' _d 80 ms	t'' _d 7 ms	t' _{do} 1131 ms t _a 12 ms

* dB(A) levels are for guidance only

STANDBY
PRIME
60 Hz

60 kW
54.6 kW

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D60P4 (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)	54.6 (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)	1.85 (7.0) 1.45 (5.5)	1.85 (7.0) 1.45 (5.5)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	5.2 (19.7) 3.6 (13.7) 2.6 (10.0)	4.5 (17.2) 3.3 (12.4) 2.5 (9.6)
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)	8.22 (13.1) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 3242 (57.0) 1337 (23.5) 3.75 (2.8)	8.22 (13.1) 33.5 (10.2) 3075 (11640) 158 (70) 10.8 (6) 2907 (51.1) 1155 (20.3) 3.75 (2.8)
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)	189 (5.35) 32.1 (8.0) 5042 (143) 678 (19.2) 0.5 (0.12) 4724 (134)	187 (5.31) 32.1 (8.0) 5042 (143) 678 (19.2) 0.5 (0.12) 4724 (134)
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)	4.43 (15) 487.1 (13.8) 1108 (594)	4.43 (15) 462.4 (13.1) 1015 (544)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	91.5	91.6

Generator Technical Data	277/480V	127/220V 120/208V	120/240V	347/600V
Motor Starting Capability: (kVA) (30% Voltage Dip)				
Self Excited	163	140	127	163
AREP Excited	212	184	167	212
PMG	212	184	167	212
Full Load Efficiencies:				
Standby	90.8	90.3	89.7	90.8
Prime	91.0	90.5	90.1	91.0
Reactances (per unit):				
X _d	2.76	3.28	3.67	2.76
X' _d	0.10	0.12	0.14	0.10
Reactances shown are applicable to the standby rating.				
X'' _d	0.051	0.061	0.068	0.051
X _q	1.66	1.97	2.20	1.66
X'' _q	0.063	0.075	0.084	0.063
X ₂	0.057	0.068	0.076	0.057
X ₀	0.005	0.006	0.006	0.005
Time Constants:	t'd	t''d	t'do	ta
	50 ms	5 ms	1354 ms	8 ms

* dB(A) levels are for guidance only