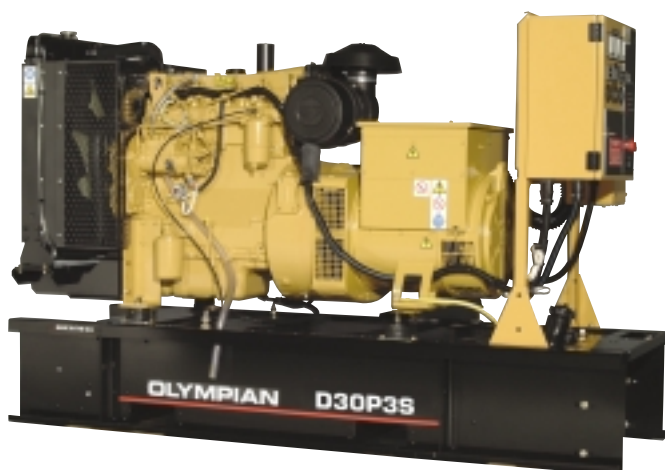


Exclusively from your Caterpillar® dealer



STANDBY 30-60 kW  
PRIME 27-54 kW  
60 Hz

Model	Standby kW (kVA)	Prime kW (kVA)
D30P3S***	30 (30)	27 (27)
D30P2S*	30 (30)	27 (27)
D40P3S***	40 (40)	36 (36)
D40P2S*	40 (40)	36 (36)
D50P3S***	50 (50)	45 (45)
D50P2S*	50 (50)	45 (45)
D60P3S***	60 (60)	54 (54)

\*Tier I 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(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, EN61000-6, IEC60034-1, 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 ± 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, EN61000-6, IEC60034, 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.

**STANDBY 30 - 60 kW**  
**PRIME 27 - 54 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 kit

**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

**CONTROL SYSTEM**

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

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

**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

**COOLING SYSTEM**

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

**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

**MISCELLANEOUS ACCESSORIES**

- Toolkit
- Additional operator's manual pack
- Special enclosure color
- UL listing
- CSA certification
- French or Spanish language labels

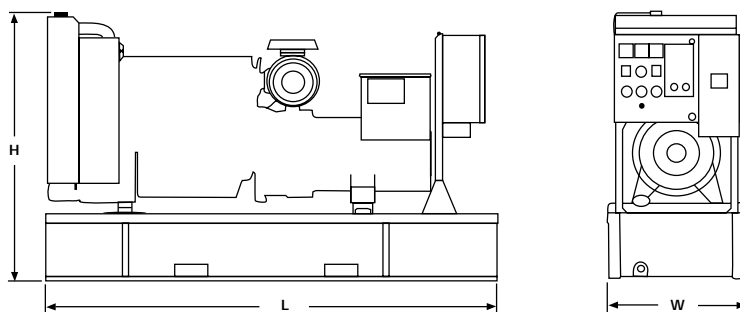
**EXTENDED WARRANTY**

- 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)

**GENERATOR SET DIMENSIONS AND WEIGHTS**



Model	Length in (mm)	Width in (mm)	Height in (mm)	Weight lbs (kg)**
D30P3S	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1697 (770)
D30P2S	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1697 (770)
D40P3S	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1807 (820)
D40P2S	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1807 (820)
D50P3S	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1851 (840)
D50P2S	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1851 (840)
D60P3S	84.6 (2149)	29.6 (751.5)	52.8 (1341)	1962 (890)

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

\*\*Includes oil and coolant

**STANDBY 30 - 60 kW**  
**PRIME 27 - 54 kW**  
**60 Hz**

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**SPECIFICATIONS**



**GENERATOR**

Voltage Regulation..... ±1.0% 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 ..... 120/240, 115/230, 110/220  
 Deration ..... Consult factory for available outputs  
 Ratings ..... At 86° F (30° C), 500 ft. (152.4 m), 60% humidity, 1.0 pf



**ENGINE**

Manufacturer ..... Perkins  
 Type ..... 4-Cycle  
 Cylinder Configuration ..... In-line 4  
 Displacement — cu in (L) ..... 243.5 (3.99)  
 Stroke — in (mm) ..... 5.00 (127.0)  
 Bore — in (mm) ..... 3.94 (100)  
 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

**D30P3S, D40P3S — 1004G**

Aspiration ..... Natural  
 Compression Ratio ..... 16.0:1  
 Max Power at Rated rpm — hp (kW)  
     Standby ..... 70.5 (52.5)  
     Prime ..... 64 (48.0)  
 BMEP — psi (kPa)  
     Standby..... 127 (877)  
     Prime ..... 116 (802)  
 Regenerative Power — kW ..... 10.5

**D30P2S, D40P2S — 1004GEPA**

Aspiration ..... Natural  
 Bore — in (mm) ..... 3.94 (100)

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

**D50P3S, D60P3S — 1004TG2**

Aspiration ..... Turbocharged  
 Compression Ratio ..... 16:1  
 Max Power at Rated rpm — hp (kW)  
     Standby ..... 122 (91.0)  
     Prime ..... 110.9 (82.7)  
 BMEP — psi (kPa)  
     Standby ..... 220.6 (1521.2)  
     Prime ..... 200.5 (1383)  
 Regenerative Power — kW ..... 12.7

**D50P2S — 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.

**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**

**30 kW**  
**27 kW**

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**D30P2S (1-Phase)**

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating (at 240V)	kW (kVA)	30 (30)	27 (27)
<b>Lubricating System</b> 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)
<b>Fuel System</b> Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	2.38 (9.0) 1.86 (7.02) 1.38 (5.22)	2.09 (7.89) 1.64 (6.20) 1.37 (5.17)
<b>Engine Electrical System</b> Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
<b>Cooling System</b> 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 <sub>2</sub> O (m H <sub>2</sub> 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)
<b>Air Requirements</b> 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 <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min) Cfm (m <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min)	111 (3.15) 8 (2) 6356 (180) 678 (19.2) 0.48 (0.120) 6356 (160)	112.5 (3.19) 8 (2) 6356 (180) 678 (19.2) 0.48 (0.120) 5132 (163)
<b>Exhaust System</b> Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m <sup>3</sup> /min) °F (°C)	1.5 (5.0) 343 (9.7) 1274 (690)	1.5 (5.0) 322 (9.1) 1130 (610)
<b>Generator Set Noise Rating*</b> (Without Attenuation) at 3 ft (1 m)	dB(A)	96	96

Generator Technical Data	120/240V	115/230V	110/220V
<b>Motor Starting Capability:</b> (kVA) (30% Voltage Dip) Self Excited PM Excited**	45 59	42 54	37 49
<b>Full Load Efficiencies:</b> Standby Prime	83.7 84.6	83.0 84.0	82.1 83.2
<b>Reactances (per unit):</b> X <sub>d</sub> Reactances X' <sub>d</sub> shown are X'' <sub>d</sub> applicable to the X <sub>q</sub> standby rating. X'' <sub>q</sub>	2.43 0.18 0.090 1.46 0.116	2.64 0.20 0.098 1.59 0.127	2.89 0.21 0.107 1.73 0.139
<b>Time Constants:</b>	t' <sub>d</sub> 80 ms	t'' <sub>d</sub> 7 ms	t' <sub>do</sub> 1164 ms t <sub>a</sub> 12 ms

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

**STANDBY 30 kW**  
**PRIME 27 kW**  
**60 Hz**

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**D30P3S (1-Phase)**

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating (at 240V)	kW (kVA)	30 (30)	27 (27)
<b>Lubricating System</b> 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)
<b>Fuel System</b> Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	3.84 (14.5) 2.92 (11) 2.11 (8)	3.5 (13.2) 2.5 (9.5) 1.8 (6.8)
<b>Engine Electrical System</b> Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
<b>Cooling System</b> 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 <sub>2</sub> O (m H <sub>2</sub> 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) 1791 (6660) 158 (70) 13.8 (7.7) 1934 (44) 910 (9.5) 5.5 (4.1)	4.14 (15.7) 6.7 (2) 1791 (6660) 158 (70) 13.8 (7.7) 1763 (38) 797 (6) 5.5 (4.1)
<b>Air Requirements</b> 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 <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min) Cfm (m <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min)	111 (3.15) 7.9 (2) 8263 (234) 678 (19.2) 0.48 (0.120) 6886 (195)	112.5 (3.19) 7.9 (2) 8263 (234) 678 (19.2) 0.48 (0.120) 6886 (195)
<b>Exhaust System</b> Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m <sup>3</sup> /min) °F (°C)	1.5 (5.0) 343 (9.72) 1274 (690)	1.5 (5.0) 321 (9.09) 1130 (610)
<b>Generator Set Noise Rating*</b> (Without Attenuation) at 3 ft (1 m)	dB(A)	97	97

Generator Technical Data	120/240V	115/230V	110/220V
<b>Motor Starting Capability:</b> (kVA) (30% Voltage Dip) Self Excited PM Excited**	45 59	42 54	37 49
<b>Full Load Efficiencies:</b> Standby Prime	83.7 84.6	83.0 84.0	82.1 83.2
<b>Reactances (per unit):</b> X <sub>d</sub> X' <sub>d</sub> Reactances shown are applicable to the standby rating. X <sub>q</sub> X'' <sub>q</sub>	2.43 0.18 0.090 1.46 0.116	2.64 0.20 0.098 1.59 0.127	2.89 0.21 0.107 1.73 0.139
<b>Time Constants:</b>	t' <sub>d</sub> 80 ms	t'' <sub>d</sub> 7 ms	t' <sub>do</sub> 1164 ms t <sub>a</sub> 12 ms

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

**STANDBY 40 kW**  
**PRIME 36 kW**  
**60 Hz**

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**D40P2S (1-Phase)**

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating (at 240V)	kW (kVA)	40 (40)	36 (36)
<b>Lubricating System</b> 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)
<b>Fuel System</b> 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) 2.09 (7.89) 1.52 (6.74)
<b>Engine Electrical System</b> Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
<b>Cooling System</b> 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 <sub>2</sub> O (m H <sub>2</sub> 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)
<b>Air Requirements</b> 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 <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min) Cfm (m <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /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)
<b>Exhaust System</b> Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m <sup>3</sup> /min) °F (°C)	1.5 (5.0) 343 (9.7) 1274 (690)	1.5 (5.0) 322 (9.1) 1130 (610)
<b>Generator Set Noise Rating*</b> (Without Attenuation) at 3 ft (1 m)	dB(A)	96	96

Generator Technical Data	120/240V	115/230V	110/220V
<b>Motor Starting Capability:</b> (kVA) (30% Voltage Dip) Self Excited PM Excited**	75 97	69 90	62 82
<b>Full Load Efficiencies:</b> Standby Prime	86.1 86.8	85.4 86.2	84.5 85.4
<b>Reactances (per unit):</b> Reactances shown are applicable to the standby rating.	X <sub>d</sub> X' <sub>d</sub> X'' <sub>d</sub> X <sub>q</sub> X'' <sub>q</sub>	2.25 0.14 0.077 1.35 0.089	2.44 0.15 0.077 1.46 0.097
<b>Time Constants:</b>	t' <sub>d</sub> 80 ms	t'' <sub>d</sub> 7 ms	t' <sub>do</sub> 1365 ms t <sub>a</sub> 12 ms

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

**S T A N D B Y**      4 0   k W  
**P R I M E**            3 6   k W  
**6 0   H z**

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**D40P3S (1-Phase)**

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating (at 240V)	kW (kVA)	40 (40)	36 (36)
<b>Lubricating System</b> 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)
<b>Fuel System</b> Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	3.84 (14.5) 2.92 (11) 2.11 (8)	3.5 (13.2) 2.5 (9.5) 1.8 (6.8)
<b>Engine Electrical System</b> Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
<b>Cooling System</b> 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 <sub>2</sub> O (m H <sub>2</sub> 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) 1791 (6660) 158 (70) 13.8 (7.7) 1934 (44) 910 (9.5) 5.5 (4.1)	4.14 (15.7) 6.7 (2) 1791 (6660) 158 (70) 13.8 (7.7) 1763 (38) 797 (6) 5.5 (4.1)
<b>Air Requirements</b> 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 <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min) Cfm (m <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min)	111 (3.15) 7.9 (2) 8236 (234) 678 (19.2) 0.48 (0.120) 6886 (195)	112.5 (3.19) 7.9 (2) 8236 (234) 678 (19.2) 0.48 (0.120) 6886 (195)
<b>Exhaust System</b> Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m <sup>3</sup> /min) °F (°C)	1.5 (5.0) 343 (9.72) 1274 (690)	1.5 (5.0) 321 (9.09) 1130 (610)
<b>Generator Set Noise Rating*</b> (Without Attenuation) at 3 ft (1 m)	dB(A)	97	97

Generator Technical Data	120/240V	115/230V	110/220V
<b>Motor Starting Capability:</b> (kVA) (30% Voltage Dip)      Self Excited PM Excited**	75 97	69 90	62 82
<b>Full Load Efficiencies:</b> Standby Prime	86.1 86.8	85.4 86.2	84.5 85.4
<b>Reactances (per unit):</b> X <sub>d</sub> Reactances      X' <sub>d</sub> shown are      X'' <sub>d</sub> applicable to the      X <sub>q</sub> standby rating.      X'' <sub>q</sub>	2.25 0.14 0.071 1.35 0.089	2.44 0.15 0.077 1.46 0.097	2.67 0.17 0.084 1.60 0.106
<b>Time Constants:</b>	t' <sub>d</sub> 80 ms	t'' <sub>d</sub> 7 ms	t' <sub>do</sub> 1365 ms
			t <sub>a</sub> 12 ms

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

**STANDBY 50 kW**  
**PRIME 45 kW**  
**60 Hz**

**OLYMPIAN™**

*Exclusively from your Caterpillar® dealer*

**D50P2S (1-Phase)**

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating (at 240V)	kW (kVA)	50 (50)	45 (45)
<b>Lubricating System</b> 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)
<b>Fuel System</b> 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)
<b>Engine Electrical System</b> Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
<b>Cooling System</b> 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 <sub>2</sub> O (m H <sub>2</sub> 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 (11 100) 158 (70) 13.8 (7.7) 2645 (45.9) 1428 (25.1) 5.1 (3.8)	5 (18.8) 14.1 (4.3) 2932 (11 100) 158 (70) 13.8 (7.7) 2400 (41.7) 1308 (23.0) 5.1 (3.8)
<b>Air Requirements</b> 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 <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min) Cfm (m <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min)	166 (4.7) 32 (8) 6356 (180) 678 (19.2) 0.48 (0.120) 5932 (168)	162.4 (4.6) 32 (8) 6356 (180) 678 (19.2) 0.48 (0.120) 5932 (168)
<b>Exhaust System</b> Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m <sup>3</sup> /min) °F (°C)	3 (10.2) 459 (13) 1229 (665)	3 (10.2) 430.8 (12.2) 1157 (625)
<b>Generator Set Noise Rating*</b> (Without Attenuation) at 3 ft (1 m)	dB(A)	92	92

Generator Technical Data	120/240V	115/230V	110/220V
<b>Motor Starting Capability:</b> (kVA) (30% Voltage Dip) Self Excited PM Excited**	95 123	87 114	79 103
<b>Full Load Efficiencies:</b> Standby Prime	83.6 84.7	82.9 84.1	82.0 83.3
<b>Reactances (per unit):</b> X <sub>d</sub> X' <sub>d</sub> Reactances shown are X'' <sub>d</sub> applicable to the X <sub>q</sub> standby rating. X'' <sub>q</sub>	2.30 0.14 0.070 1.38 0.089	2.51 0.15 0.076 1.50 0.097	2.74 0.17 0.083 1.64 0.106
<b>Time Constants:</b>	t' <sub>d</sub> 80 ms	t'' <sub>d</sub> 7 ms	t' <sub>do</sub> 1432 ms t <sub>a</sub> 12 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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**D50P3S (1-Phase)**

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Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating (at 240V)	kW (kVA)	50 (50)	45 (45)
<b>Lubricating System</b> 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)
<b>Fuel System</b> Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	5.0 (18.96) 3.75 (14.22) 2.5 (9.48)	4.55 (17.23) 3.43 (12.92) 2.28 (8.62)
<b>Engine Electrical System</b> Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
<b>Cooling System</b> 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 <sub>2</sub> O (m H <sub>2</sub> 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)
<b>Air Requirements</b> 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 <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min) Cfm (m <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min)	2175 (6.16) 20 (5) 9958 (282) 678 (19.2) 0.48 (0.120) 6356 (180)	207 (5.85) 20 (5) 9958 (282) 678 (19.2) 0.48 (0.120) 6356 (180)
<b>Exhaust System</b> Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m <sup>3</sup> /min) °F (°C)	1.8 (6.0) 600.3 (17) 1018 (548)	1.8 (6.0) 561.5 (15.9) 952 (511)
<b>Generator Set Noise Rating*</b> (Without Attenuation) at 3 ft (1 m)	dB(A)	97	97

Generator Technical Data	120/240V	115/230V	110/220V
<b>Motor Starting Capability:</b> (kVA) (30% Voltage Dip) Self Excited PM Excited**	95 123	87 114	79 103
<b>Full Load Efficiencies:</b> Standby Prime	83.6 84.7	82.9 84.1	82.0 83.3
<b>Reactances (per unit):</b> X <sub>d</sub> Reactances X' <sub>d</sub> shown are X'' <sub>d</sub> applicable to the X <sub>q</sub> standby rating. X'' <sub>q</sub>	2.30 0.14 0.070 1.38 0.089	2.51 0.15 0.076 1.50 0.097	2.74 0.17 0.083 1.64 0.106
<b>Time Constants:</b>	t' <sub>d</sub> 80 ms	t'' <sub>d</sub> 7 ms	t' <sub>do</sub> 1432 ms t <sub>a</sub> 12 ms

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**STANDBY 60 kW**  
**PRIME 54 kW**  
**60 Hz**

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**D60P3S (1-Phase)**

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating (at 240V)	kW (kVA)	60 (60)	54 (54)
<b>Lubricating System</b> 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)
<b>Fuel System</b> Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	5.0 (18.96) 3.75 (14.22) 2.5 (9.48)	4.55 (17.23) 3.43 (12.92) 2.28 (8.62)
<b>Engine Electrical System</b> Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	45	45
<b>Cooling System</b> 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 <sub>2</sub> O (m H <sub>2</sub> 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)
<b>Air Requirements</b> 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 <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min) Cfm (m <sup>3</sup> /min) In H <sub>2</sub> O (kPa) Cfm (m <sup>3</sup> /min)	2175 (6.16) 20 (5) 9958 (282) 933 (26.4) 0.48 (0.120) 6356 (180)	207 (5.85) 20 (5) 9958 (282) 933 (26.4) 0.48 (0.120) 6356 (180)
<b>Exhaust System</b> Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m <sup>3</sup> /min) °F (°C)	1.8 (6.0) 600.3 (17) 1018 (548)	1.8 (6.0) 561.5 (15.9) 952 (511)
<b>Generator Set Noise Rating*</b> (Without Attenuation) at 3 ft (1 m)	dB(A)	97	97

Generator Technical Data	120/240V	115/230V	110/220V
<b>Motor Starting Capability:</b> (kVA) (30% Voltage Dip) Self Excited PM Excited**	97 127	89 118	81 106
<b>Full Load Efficiencies:</b> Standby Prime	85.5 86.3	84.7 85.6	84.4 85.4
<b>Reactances (per unit):</b> X <sub>d</sub> Reactances X' <sub>d</sub> shown are X'' <sub>d</sub> applicable to the X <sub>q</sub> standby rating. X'' <sub>q</sub>	2.67 0.17 0.102 1.60 0.131	2.91 0.19 0.111 1.75 0.142	3.18 0.20 0.121 1.91 0.156
<b>Time Constants:</b>	t' <sub>d</sub> 165 ms	t'' <sub>d</sub> 13 ms	t' <sub>do</sub> 2712 ms t <sub>a</sub> 20 ms

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