

Exclusively from your Caterpillar® dealer



STANDBY 60-100 kW PRIME 54-90 kW 60 Hz

Model	Standby kW (kVA)	Prime kW (kVA)
D60P4S*	60 (60)	54 (54)
D75P3 [∞]	75 (93.8)	68 (85)
D80P4*	80 (100)	72 (90)
D75P1S [∞]	75 (75)	67.5 (67.5)
D75P4S*	75 (75)	67.5 (67.5)
D90P1S [∞]	90 (90)	82.4 (82.4)
D90P4S*	90 (90)	82 (82)
D100P1S [∞]	100 (100)	90 (90)
D100P4S*	100 (100)	90 (90)

*Tier II 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
- Governor, electronic (D80P4, D60P4S, D75P4S, D90P4S, D100P4S)
- 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 to 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 ± 0.5% 3 Phase and ± 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.

STANDBY 75 - 100 kW
PRIME 68 - 90 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

CIRCUIT BREAKER

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

GENERATOR

- Anti-condensation heater
- Permanent magnet generator
- AREP excitation system (D75P3, D80P4)
- Generator upgrade 1 size (D75P3, D80P4)

CONTROL SYSTEM

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

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 SERVICE CONTRACTS

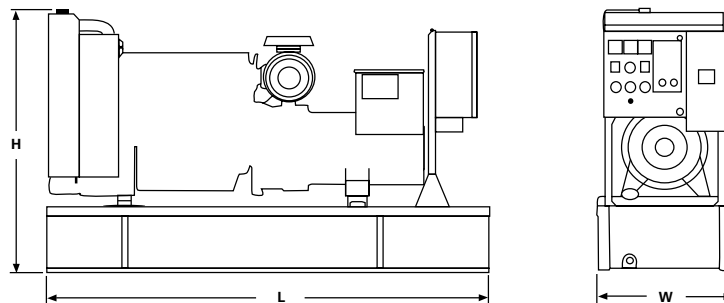
- Extended Service Coverage available

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)**
D60P4S	92.4 (2347)	43.3 (1100)	52.0 (1321)	2959 (1342)
D75P3	84.6 (2149)	29.6 (752)	52.8 (1341)	1995 (905)
D80P4	92.4 (2347)	43.3 (1100)	52.0 (1321)	3157 (1432)
D75P1S	110 (2793)	35.4 (900)	60.7 (1541)	2659 (1206)
D75P4S	92.4 (2347)	43.3 (1100)	52.0 (1321)	3047 (1382)
D90P1S	110 (2793)	35.4 (900)	60.7 (1541)	2923 (1326)
D90P4S	92.4 (2347)	43.3 (1100)	52.0 (1321)	3157 (1432)
D100P1S	110.0 (2793)	35.4 (900)	60.7 (1541)	2959 (1342)
D100P4S	92.4 (2347)	43.3 (1100)	52.0 (1321)	3311 (1502)

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

**Includes oil and coolant

STANDBY **75 - 100 kW**
PRIME **68 - 90 kW**
60 Hz

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SPECIFICATIONS



GENERATOR

Voltage Regulation . . . $\pm 0.5\%$ 3 Phase and $\pm 1.0\%$ Single
Phase at steady state from no load to full load
Frequency . . . $\pm 0.8\%$ (models with mechanical governor)
 $\pm 0.25\%$ (models with electronic governor)
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, 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, 1.0 pf (1-Phase), 0.8 pf (3-Phase)



ENGINE

Manufacturer . . . Perkins
Type . . . 4-Cycle
Bore (1000 Series) — in (mm) . . . 3.94 (100.0)
Bore (1100 Series) — in (mm) . . . 4.13 (105.0)
Stroke — in (mm) . . . 5.00 (127.0)
Governor
Type . . . Mechanical/Electronic
Class . . . A1/G2
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

D75P3 — 1004TG2

Aspiration . . . Turbocharged
Cylinder Configuration . . . In-line 4
Displacement — cu in (L) . . . 243 (4.0)
Compression Ratio . . . 16.0:1
Max Power at Rated rpm — hp (kW)
Standby . . . 117 (87.0)
Prime . . . 106 (79.0)
BMEP — psi (kPa)
Standby . . . 211 (1455)
Prime . . . 191 (1317)
Regenerative Power — kW . . . 10.5

D80P4, D60P4S, D75P4S — 1104C-TAG1

Aspiration . . . Turbocharged
Cylinder Configuration . . . In-line 4
Displacement — cu in (L) . . . 269 (4.4)
Compression Ratio . . . 19.3:1
Max Power at Rated rpm — hp (kW)
Standby . . . 126 (94)
Prime . . . 114.5 (85)
BMEP — psi (kPa)
Standby . . . 206 (1422)
Prime . . . 187 (1292)
Regenerative Power — kW . . . 13.8

D75P1S, D90P1S — 1006TG1A

Aspiration . . . Turbocharged
Cylinder Configuration . . . In-line 6
Displacement — cu in (L) . . . 365 (6.0)
Compression Ratio . . . 16.0:1
Max Power at Rated rpm — hp (kW)
Standby . . . 150 (112)
Prime . . . 136 (102)
BMEP — psi (kPa)
Standby . . . 182 (1259)
Prime . . . 164 (1133)
Regenerative Power — kW . . . 16.2

D90P4S, D100P4S — 1104C-TAG2

Aspiration . . . Turbocharged
Cylinder Configuration . . . In-line 4
Displacement — cu in (L) . . . 269 (4.4)
Compression Ratio . . . 19.3:1
Max Power at Rated rpm — hp (kW)
Standby . . . 157.5 (117.5)
Prime . . . 143.2 (106.9)
BMEP — psi (kPa)
Standby . . . 258 (1778)
Prime . . . 234 (1616)
Regenerative Power — kW . . . 13.8

D100P1S — 1006TG2A

Aspiration . . . Turbocharged
Cylinder Configuration . . . In-line 6
Displacement — cu in (L) . . . 365 (6.0)
Compression Ratio . . . 16.0:1
Max Power at Rated rpm — hp (kW)
Standby . . . 166 (124)
Prime . . . 151 (112)
BMEP — psi (kPa)
Standby . . . 202 (1393)
Prime . . . 181 (1253)
Regenerative Power — kW . . . 16.2



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.

STANDBY **80 kW**
PRIME **72 kW**
60 Hz

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D80P4 (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)	80 (100)	72 (90)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CG4/CH4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	1.4 (7.9) 1.2 (6.4)	1.4 (7.9) 1.2 (6.4)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	6.3 (23.8) 4.2 (18.5) 3.5 (13.2)	5.7 (21.7) 4.5 (16.9) 3.2 (12.2)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	65	65
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)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 7.9 (4.4) 2986 (52.5) 893 (15.7) 6.7 (5.0)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 7.0 (4.0) 2719 (47.8) 785 (13.8) 6.7 (5.0)
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 (m³/min) In H ₂ O (kPa) Cfm (m³/min) Cfm (m³/min) In H ₂ O (kPa) Cfm (m³/min)	218 (5.95) 20 (5) 9746 (276) 933 (26.4) 0.48 (0.120) 8616 (244)	207 (5.9) 20 (5) 9746 (276) 933 (26.4) 0.48 (0.120) 8616 (244)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m³/min) °F (°C)	4.5 (15) 565 (13.47) 1011 (544)	4.5 (15) 514 (14.5) 919 (495)
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	206	191	177	160	N/A
	PM Excited**	271	252	233	211	271
	AREP Excited	271	252	233	211	271
Full Load Efficiencies:	Standby	91.7	91.4	91.3	90.9	91.7
	Prime	91.8	91.8	91.5	91.3	91.8
Reactances (per unit): Reactances shown are applicable to the standby rating.	X _d	2.87	3.12	3.41	3.82	2.87
	X' _d	0.11	0.12	0.13	0.15	0.11
	X'' _d	0.067	0.073	0.079	0.089	0.067
	X _q	1.72	1.87	2.05	2.29	1.72
	X'' _q	0.083	0.090	0.099	0.110	0.083
	X ₂	0.075	0.082	0.089	0.100	0.075
	X ₀	0.004	0.004	0.005	0.005	0.004
Time Constants:		t' _d 100 ms	t'' _d 10 ms	t' _{do} 2555 ms	t _a 15 ms	

* dB(A) levels are for guidance only

STANDBY **75 kW**
PRIME **68 kW**
60 Hz

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D75P3 (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)	75 (93.8)	68 (85.0)
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)	2.2 (8.1)	2.2 (8.1)
	U.S. gal (L)	1.8 (6.9)	1.8 (6.9)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr)	6.14 (23.30)	5.58 (21.18)
	G/hr (L/hr)	4.64 (17.56)	4.22 (15.96)
	G/hr (L/hr)	3.42 (13.0)	3.11 (11.76)
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)	5.2 (19.7)	5.2 (19.7)
	Ft H ₂ O (m H ₂ O)	9.84 (3)	9.84 (3)
	U.S. gal/hr (L/hr)	1870 (5820)	1870 (5820)
	°F (°C)	158 (70)	158 (70)
	°F (°C)	13.9 (7.7)	13.9 (7.7)
	Btu/min (kW)	2958 (52.0)	2674 (47.0)
	Btu/min (kW)	1683 (22.3)	1490 (18.6)
	Hp (kW)	6.0 (4.5)	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 (m³/min)	218 (6.2)	207 (5.9)
	In H ₂ O (kPa)	11.2 (2.8)	11.2 (2.8)
	Cfm (m³/min)	8263 (234)	8263 (234)
	Cfm (m³/min)	678 (19.2)	678 (19.2)
	In H ₂ O (kPa)	0.50 (0.125)	0.50 (0.125)
	Cfm (m³/min)	6081 (172)	6081 (172)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa)	1.8 (6.0)	1.8 (6.0)
	Cfm (m³/min)	600 (17.0)	561 (15.9)
	°F (°C)	1018 (548)	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 PM Excited** AREP Excited		210	193	176	158	N/A
		273	251	230	206	273
		273	251	230	206	273
Full Load Efficiencies: Standby Prime		91.5	91.4	91.1	90.7	91.5
		91.7	91.6	91.5	91.1	91.7
Reactances (per unit): X _d Reactances shown are applicable to the standby rating. X _q X ₂ X ₀	X _d	2.84	3.09	3.38	3.78	2.84
	X _d	0.10	0.11	0.12	0.13	0.10
	X _d	0.050	0.054	0.059	0.066	0.050
	X _q	1.70	1.85	2.02	2.26	1.70
	X _q	0.062	0.067	0.074	0.082	0.062
	X ₂	0.055	0.060	0.066	0.073	0.055
	X ₀	0.006	0.006	0.007	0.007	0.006
Time Constants:		t' _d 50 ms	t'' _d 5 ms	t' _{do} 1431 ms	t _a 8 ms	

* dB(A) levels are for guidance only

STANDBY 60 kW
PRIME 54 kW
60 Hz

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D60P4S (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)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CG-4/CH4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	1.4 (7.9) 1.2 (6.4)	1.4 (7.9) 1.2 (6.4)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	5.0 (19.1) 3.9 (14.8) 2.9 (10.8)	4.6 (17.5) 3.6 (13.6) 2.6 (10.0)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	65	65
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)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 7.7 (4.4) 2986 (52.5) 887 (15.6) 6.7 (5.0)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 7.0 (4.0) 2719 (47.8) 802 (14.1) 6.7 (5.0)
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 (m³/min) In H ₂ O (kPa) Cfm (m³/min) Cfm (m³/min) In H ₂ O (kPa) Cfm (m³/min)	210 (5.95) 30.1 (7.5) 9746 (276) 678 (19.2) 0.48 (0.120) 8616 (244)	191 (5.4) 30.1 (7.5) 9746 (276) 678 (19.2) 0.48 (0.120) 8616 (244)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m³/min) °F (°C)	4.5 (15.0) 565 (16.0) 1011 (544)	4.5 (15.0) 514 (14.5) 919 (495)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	96	96

Generator Technical Data		120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip) Self Excited PM Excited**		128 128	119 119	101 101
Full Load Efficiencies: Standby Prime		88.3 88.3	87.6 87.6	86.9 86.9
Reactances (per unit): X _d Reactances X' _d shown are X'' _d applicable to the X _q standby rating. X'' _q		2.14 0.17 0.086 1.29 0.105	2.33 0.18 0.093 1.41 0.115	2.55 0.20 0.102 1.54 0.125
Time Constants:	t' _d 80 ms	t'' _d 7 ms	t' _{do} 1354 ms	t _a 12 ms

* dB(A) levels are for guidance only

STANDBY 75 kW
PRIME 67.5 kW
60 Hz

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D75P1S (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)	75 (75)	67.5 (67.5)
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)	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)	7.27 (27.5) 5.52 (20.9) 4.00 (15.1)	6.61 (25.0) 5.02 (19.0) 3.63 (13.7)
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)	7.3 (27.7) 26.2 (8.0) 2664 (10 080) 158 (70) 13.9 (7.7) 4129 (72.6) 2224 (29.2) 5.4 (4.0)	7.3 (27.7) 26.2 (8.0) 2664 (10 080) 158 (70) 13.9 (7.7) 3726 (65.5) 1780 (22.2) 5.4 (4.0)
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 (m³/min) In H ₂ O (kPa) Cfm (m³/min) Cfm (m³/min) In H ₂ O (kPa) Cfm (m³/min)	257 (7.3) 20 (5.0) 9240 (264) 933 (26.4) 0.50 (0.125) 7123 (246)	245 (7.0) 20 (5.0) 9240 (264) 933 (26.4) 0.50 (0.125) 7123 (246)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m³/min) °F (°C)	1.8 (6.0) 744 (21.1) 1063 (573)	1.8 (6.0) 686 (19.4) 1004 (540)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	95	95

Generator Technical Data		120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip)	Self Excited PM Excited**	97 127	89 118	81 106
Full Load Efficiencies:	Standby Prime	82.4 83.7	81.5 82.8	80.9 82.5
Reactances (per unit):	X _d X' _d X'' _d X _q X'' _q	3.34 0.21 0.127 2.00 0.163	3.64 0.23 0.139 2.18 0.178	3.78 0.24 0.144 2.27 0.185
Time Constants:	t' _d 165 ms	t'' _d 13 ms	t' _{do} 2712 ms	t _a 20 ms

* dB(A) levels are for guidance only

STANDBY 75 kW
PRIME 67.5 kW
60 Hz

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D75P4S (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)	75 (75)	67.5 (67.5)
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)	1.4 (7.9) 1.2 (6.4)	1.4 (7.9) 1.2 (6.4)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	6.0 (22.9) 4.7 (17.8) 3.4 (12.7)	5.5 (20.9) 4.3 (16.3) 3.2 (12.0)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	65	65
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)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 7.9 (4.4) 2986 (52.5) 967 (17.0) 6.7 (5.0)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 7.2 (4.0) 2719 (47.8) 859 (15.1) 6.7 (5.0)
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 (m³/min) In H ₂ O (kPa) Cfm (m³/min) Cfm (m³/min) In H ₂ O (kPa) Cfm (m³/min)	279 (7.79) 20 (5.0) 9746 (276) 678 (19.2) 0.48 (0.120) 8616 (244)	260 (7.38) 20 (5.0) 9746 (276) 678 (19.2) 0.48 (0.120) 8616 (244)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m³/min) °F (°C)	4.5 (15) 794 (22.5) 1076 (580)	4.5 (15) 705 (20.0) 1004 (540)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	95	95

Generator Technical Data		120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip)	Self Excited PM Excited**	170 170	160 160	150 150
Full Load Efficiencies:	Standby Prime	88.9 89.3	88.4 88.8	87.7 88.2
Reactances (per unit):	X _d X' _d X'' _d X _q X'' _q	2.02 0.15 0.077 1.21 0.095	2.20 0.16 0.084 1.32 0.103	2.40 0.18 0.092 1.44 0.113
Time Constants:	t' _d 80 ms	t'' _d 7 ms	t' _{do} 1431 ms	t _a 12 ms

* dB(A) levels are for guidance only

STANDBY 90 kW
PRIME 82.4 kW
60 Hz

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D90P1S (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)	90 (90)	82.4 (82.4)
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)	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)	7.27 (27.5) 5.52 (20.9) 4.00 (15.1)	6.61 (25.0) 5.02 (19.0) 3.63 (13.7)
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)	7.3 (27.7) 26.2 (8.0) 2664 (10 080) 158 (70) 13.9 (7.7) 4129 (72.6) 2224 (29.2) 5.4 (4.0)	7.3 (27.7) 26.2 (8.0) 2664 (10 080) 158 (70) 13.9 (7.7) 3726 (65.5) 1780 (22.2) 5.4 (4.0)
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 (m³/min) In H ₂ O (kPa) Cfm (m³/min) Cfm (m³/min) In H ₂ O (kPa) Cfm (m³/min)	257 (7.3) 20 (5.0) 9240 (264) 933 (26.4) 0.50 (0.125) 7123 (246)	245 (7.0) 20 (5.0) 9240 (264) 933 (26.4) 0.50 (0.125) 7123 (246)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m³/min) °F (°C)	1.8 (6.0) 744 (21.1) 1063 (573)	1.8 (6.0) 686 (19.4) 1004 (540)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	95	95

Generator Technical Data		120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip) Self Excited PM Excited**		170 222	158 207	145 190
Full Load Efficiencies: Standby Prime		87.5 88.5	86.9 87.9	86.2 87.2
Reactances (per unit): X _d Reactances X' _d shown are X'' _d applicable to the X _q standby rating. X'' _q		2.42 0.16 0.093 1.45 0.111	2.64 0.17 0.102 1.58 0.121	2.88 0.19 0.111 1.73 0.132
Time Constants:	t' _d 165 ms	t'' _d 13 ms	t' _{do} 2723 ms	t _a 20 ms

* dB(A) levels are for guidance only

STANDBY 90 kW
PRIME 82 kW
60 Hz

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D90P4S (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)	90 (90)	82 (82)
Lubricating System Type: Full Pressure Oil Filter: Spin-On, Full Flow Oil Cooler: Watercooled Oil Type Required: API CG4/CH4 Total Oil Capacity Oil Pan	U.S. gal (L) U.S. gal (L)	1.4 (7.9) 1.2 (6.4)	1.4 (7.9) 1.2 (6.4)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	7.2 (27.3) 5.5 (20.9) 3.9 (14.7)	6.6 (24.9) 5.0 (19.0) 3.7 (14.0)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	65	65
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)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 9.9 (5.5) 3731 (65.6) 1206 (21.2) 6.7 (5.0)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 9.0 (5.0) 3396 (59.7) 1069 (18.8) 6.7 (5.0)
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 (m³/min) In H ₂ O (kPa) Cfm (m³/min) Cfm (m³/min) In H ₂ O (kPa) Cfm (m³/min)	279 (7.79) 20 (5.0) 9746 (276) 933 (26.4) 0.48 (0.120) 8616 (244)	260 (7.38) 20 (5.0) 9746 (276) 933 (26.4) 0.48 (0.120) 8616 (244)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m³/min) °F (°C)	4.5 (15) 794 (22.5) 1076 (580)	4.5 (15) 705 (20.0) 1004 (540)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	95	95

Generator Technical Data		120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip)	Self Excited PM Excited**	145 145	135 135	126 126
Full Load Efficiencies:	Standby Prime	88.6 89.1	88 88.5	87.8 87.8
Reactances (per unit):	X _d X' _d Reactances shown are applicable to the standby rating.	2.99 0.25 0.148 1.80 0.184	3.25 0.28 0.161 1.96 0.201	3.55 0.30 0.176 2.14 0.219
Time Constants:		t' _d 165 ms	t'' _d 13 ms	t' _{do} 2555 ms t _a 20 ms

* dB(A) levels are for guidance only

STANDBY 100 kW
PRIME 90 kW
60 Hz

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D100P1S (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)	100 (100)	90 (90)
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)	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)	8.07 (30.53) 6.19 (23.42) 4.48 (16.95)	7.30 (27.63) 5.54 (20.99) 4.01 (15.19)
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)	7.3 (27.7) 26.2 (8.0) 2664 (10 080) 158 (70) 13.9 (7.7) 4550 (80.0) 2361 (31.6) 5.91 (4.4)	7.3 (27.7) 26.2 (8.0) 2664 (10 080) 158 (70) 13.9 (7.7) 4095 (72.0) 1917 (23.8) 5.91 (4.4)
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 (m³/min) In H ₂ O (kPa) Cfm (m³/min) Cfm (m³/min) In H ₂ O (kPa) Cfm (m³/min)	275 (7.8) 20 (5.0) 9205 (263) 933 (26.4) 0.50 (0.125) 7065 (244)	261 (7.4) 20 (5.0) 10,500 (300) 933 (26.4) 0.50 (0.125) 7065 (244)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m³/min) °F (°C)	1.8 (6.0) 794 (22.5) 1076 (580)	1.8 (6.0) 705 (20.0) 1004 (540)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	95	95

Generator Technical Data		120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip) Self Excited PM Excited**		198 260	185 243	169 223
Full Load Efficiencies: Standby Prime		88.2 89.2	87.7 88.7	87.0 88.0
Reactances (per unit): Reactances shown are applicable to the standby rating.	X _d X' _d X'' _d X _q X'' _q	2.31 0.15 0.087 1.39 0.104	2.51 0.16 0.095 1.51 0.113	2.74 0.17 0.104 1.65 0.123
Time Constants:	t' _d 165 ms	t'' _d 13 ms	t' _{do} 2752 ms	t _a 20 ms

* dB(A) levels are for guidance only

STANDBY 100 kW
PRIME 90 kW
60 Hz

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D100P4S (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)	100 (100)	90 (90)
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)	1.4 (7.9) 1.2 (6.4)	1.4 (7.9) 1.2 (6.4)
Fuel System Generator Set Fuel Consumption 100% Load 75% Load 50% Load	G/hr (L/hr) G/hr (L/hr) G/hr (L/hr)	7.8 (29.6) 5.9 (22.4) 4.2 (15.9)	7.1 (26.8) 5.4 (20.4) 4.0 (15.0)
Engine Electrical System Voltage/Ground: 12/Negative Battery Charging Generator Ampere Rating	Amps	65	65
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)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 9.9 (5.5) 3731 (65.6) 1206 (21.2) 6.7 (5.0)	3.3 (12.6) 33.5 (10.2) 3075 (11640) 158 (70) 9.0 (5.0) 3396 (59.7) 1069 (18.8) 6.7 (5.0)
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 (m³/min) In H ₂ O (kPa) Cfm (m³/min) Cfm (m³/min) In H ₂ O (kPa) Cfm (m³/min)	279 (7.79) 20 (5.0) 9746 (276) 933 (26.4) 0.48 (0.120) 8616 (244)	260 (7.38) 20 (5.0) 9746 (276) 933 (26.4) 0.48 (0.120) 8616 (244)
Exhaust System Maximum Allowable Backpressure Exhaust Flow at Rated kW Exhaust Temperature at Rated kW — Dry Exhaust	In Hg (kPa) Cfm (m³/min) °F (°C)	4.5 (15) 794 (22.5) 1076 (580)	4.5 (15) 705 (20.0) 1004 (540)
Generator Set Noise Rating* (Without Attenuation) at 3 ft (1 m)	dB(A)	95	95

Generator Technical Data		120/240V	115/230V	110/220V
Motor Starting Capability: (kVA) (30% Voltage Dip)	Self Excited PM Excited**	188 188	174 174	162 162
Full Load Efficiencies:	Standby Prime	90.5 90.5	90.0 90.0	89.4 89.4
Reactances (per unit):	X _d X' _d X'' _d X _q X'' _q	2.67 0.21 0.127 1.60 0.151	2.91 0.23 0.138 1.74 0.164	3.18 0.25 0.151 1.90 0.180
Time Constants:	t' _d 165 ms	t'' _d 13 ms	t' _{do} 2734 ms	t _a 20 ms

* dB(A) levels are for guidance only