



Perkins Diesel Direct Coupled to 1800 RPM Brushless Generator

- Brushless generators
- Factory tested
- Revolving field class H, 125°C temperature rise generator
- 1% voltage regulation
- Unit mounted radiator with fan guard
- Rubber isolators between unit and base for vibration free operation
- Lifting eyes for easy handling
- Absence of brush gear and high quality AVR ensures low levels of radio interference
- Generators meet the requirements of BS5000 part 3, VDE0530, UTE5100, NEMA MGI-22, CEMA, IE34-1, CSA22.2, and AS1359



Standard Equipment

- Batteries and battery cables
- Battery charging alternator
- Automatic trickle charger
- Engine jacket water heater
- Engine oil and anti-freeze
- Exhaust system (includes muffler, stainless steel bellows connector, rain cap, clamps and 5 feet of exhaust pipe)

DISPLAY | MASTER 4 Controller Standard Features

- Rugged solid state microprocessor design
- 16 character, 2 line backlit LCD display
- Easy keypad programming of all set points, password protected for security
- Remote start/stop capability
- Accurate digital readout of AC volts, amps, phase, frequency, kW, kVA, power factor, battery volts, runtime hours, oil pressure and water temperature
- Indicator lights for normal operation, pre-alarm and fault conditions
- Indicator light for remote start signal
- All shutdowns display on screen until system is reset
- Audible alarm for shutdowns and/or pre-alarms
- 6 user configurable dry contact relay outputs (readily available plug-in relays optional)
- 8 user configurable digital inputs
- Plug-in connectors for easy circuit board replacement
- System Lock feature disables starting of generator for maintenance purposes (requires password to unlock)

Pre-alarms

- Low engine temperature, high engine temperature, low oil pressure, over speed, high battery volts, low battery volts, unit not in auto

Shutdowns

- High engine temperature, low oil pressure, low coolant level, over speed, over crank, no speed signal, emergency stop, weak battery

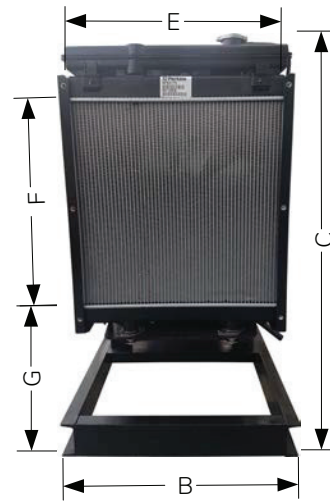
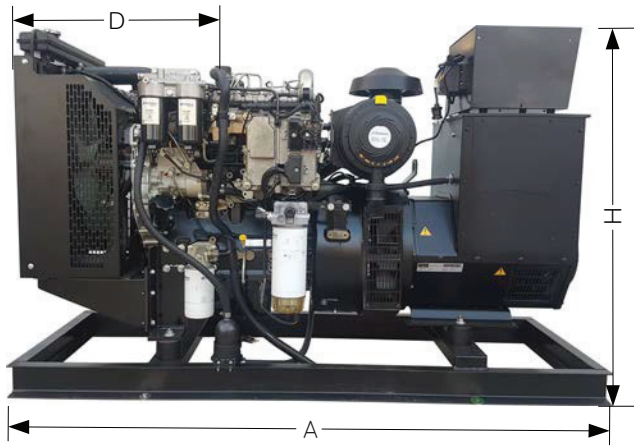
Optional Equipment

- Automatic transfer switches
- Dual wall sub base fuel tanks
- Enclosures
- Trailers
- Main breaker
- Automatic idle for warmup and cooldown
- Permanent magnet generator (PMG) system (provides 300% short circuit withstanding capability)
- Over current sensing, shutdown and display
- Low fuel pre-alarm, shutdown and display
- 29 light remote annunciator with dry relay contacts for all pre-alarms and faults
- Low oil level pre-alarm or shutdown with display
- Pre-alarm and fault relay contacts 10 amp

Model Selection

Model	KW	KVA	Phase	Volts	RPM	Amps	Breaker Size
1D055P3	55	55	1	120/240	1800	229	250A
2D055P3	55	68.75	3	120/208	1800	191	200A
6D055P3	55	68.75	3	347/600	1800	66	70A
1D060P3	60	60	1	120/240	1800	250	250A
2D060P3	60	75	3	120/208	1800	208	225A
6D060P3	60	75	3	347/600	1800	72	80A

Dimensions



Model	A	B	C	D	E	F	G	H	Total Wt.
55kW	72	26	44	22	20.5	20.5	17	45.5	1900 lbs.
60 kW	72	26	44	22	22.5	20.75	17	45.5	xx

Specifications

TIER 3 Emissions	Units of Measurement	55kW	60 kW
Engine Model		1104D-44TG1	1104D-E44TG1
Horsepower		85	96.3
Type		4 cyl. Inline	4 cyl. Inline
Aspiration		Turbocharged	Turbocharged
Bore x Stroke	mm (inches)	105 x 127(4.1x 5.0)	105 x 127(4.1x 5.0)
Displacement	litres (cubic inches)	4.4 (268.5)	4.4 (268.5)
Compression Ratio		18.2:1	16.2:1
Fuel Consumption 100% Load	Litre/hr (US gal/hr)	18.7 (4.94)	20 (5.28)
Fuel Consumption 75% Load	Litre/hr (US gal/hr)	14 (3.7)	17 (4.49)
Fuel Consumption 50% Load	Litre/hr (US gal/hr)	9.35 (2.47)	12 (3.17)
Battery Size	(Cranking Amps)	31A(950)	31A(950)
Oil Capacity	Litres (US gal)	8 (2.1)	8 (2.1)
Coolant Capacity	Litres (US gal)	16.5 (4.3)	16.5 (4.3)
Thermostat Range	°C (°F)	82-95 (180-203)	82-95 (180-203)
Max Pressure Cap	kpa (psi)	100 (14.5)	100 (14.5)
Intake Air Flow	m ³ /min (cfm)	5.3 (187.2)	5.9 (208.3)
Exhaust Gas Temperature	°C (°F)	571(1059.8)	547 (1016)
Exhaust Gas Flow	m ³ /min (cfm)	13.7 (483.8)	14.7 (519)
Heat Rejection to Coolant	BTU/min	N/A	N/A
Ambient Capacity of Radiator	°C (°F)	N/A	N/A
Max Allowable Back Pressure on Exhaust	kpa (in Hg)	15.0 (4.4)	15.0 (4.4)
Air Flow Required Through Radiator	m ³ /min (cfm)	N/A	N/A



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