

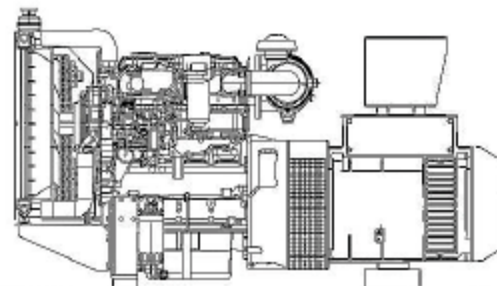
FEATURES

- provides one-source responsibility for the generator system and its accessories.
- All units and components are factory tested during prototype and manufacturing stages assuring long product life.
- Generator set accepts one-step 100% of full load per NFPA 110.
- A **one-year** limited **warranty** covers all systems and components. Extended warranties are available.
- Rugged 4 cycle heavy-duty diesel engine, with swirl intake ports for a low fuel consumption and excellent transient response.

Generator features:

- Unique Volts per Hertz compensated electronic AVR excitation system delivers reliable voltage response for in rush loads.
- Brushless, rotating-field generator has low reactance, 2/3 pitch, class H insulation, minimizes voltage distortion when powering non-linear loads.

TIER 4 SERIES



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More features:

- Controllers are available to meet your most demanding applications.
- In the event of low oil pressure or high coolant temperature the self-protecting system will automatically stop the engine.

GENERATOR SET RATINGS

Model	Volt Code	Voltage	Winding Connection	Phase	Power Factor	Hz	Amps Standby	Standby kW / kVA	Prime kW / kVA
A21PE4	61	480 / 277	HI WYE	3	0.8	60	32	21.3 (26.6)	19.2(24)
A21PE4	62	460 /266	HI WYE	3	0.8	60	33	21.3 (26.6)	19.2(24)
A21PE4	63	440 / 254	HI WYE	3	0.8	60	35	21.3 (26.6)	19.2(24)
A21PE4	63.1	380 / 220	HI WYE	3	0.8	60	41	21.3 (26.6)	19.2(24)
A21PE4	64	240 / 139	LOW WYE	3	0.8	60	64	21.3 (26.6)	19.2(24)
A21PE4	65	220 / 127	LOW WYE	3	0.8	60	70	21.3 (26.6)	19.2(24)
A21PE4	66	208 / 120	LOW WYE	3	0.8	60	74	21.3 (26.6)	19.2(24)
A21PE4	67	240 / 120	2 DELTA	1	1.0	60	89	21.3 (21.3)	19.2(19.2)
A21PE4	51	415 / 240	HI WYE	3	0.8	50	-	-	-
A21PE4	53	380 / 220	HI WYE	3	0.8	50	-	-	-
A21PE4	55	220 / 127	LOW WYE	3	0.8	50	-	-	-
A21PE4	57	220 / 110	2 DELTA	1	1.0	50	-	-	-

Stand-By ratings are continuous electrical service during the interruption of normal power. No overload capacity is specified at these ratings.

Prime ratings available with variable loads are continuous, 10% overload capacity for one hour in twelve hours periods.

Both ratings per BS 5514, DIN 6271, ISO-3046

Many industrial, commercial and residential voltages are available

ALTERNATOR SPECIFICATIONS

A21PE4

Type	Four pole, revolving field
Rotor Insulation	Class H
Temperature Rise	150°C Standby
Material	Epoxy resin
Line-To-Line Harmonic Factor (Max)	5%
Telephone Interference Factor (Tif)	1%
Voltage Regulator	Solid State
Cooling	Self-ventilated and drip proof
Bearing	1 each, pre-lubed
Coupling	Direct, Flexible Disc
Load Capacity (Standby)	100%
Overload Capacity (Prime)	110%
Voltage Regulation	
No Load To Full Load	±1 %
One Step Load Acceptance Per NFPA 110	100%

- ❑ Four pole, revolving field, direct coupled to engine flywheel, provides excellent alignment.
- ❑ Insulation is of class H, ready to be used on harsh environments where sea spray, sand and chemical corrosion are existing factors.
- ❑ Voltage regulator provides Volts/Hertz compensation to improve the motor starting capabilities, therefore support the engine handling transient loads.
- ❑ Dynamically balanced rotor, with damper winding, help dissipate transient voltage interference during load variations.
- ❑ The windings have a 2/3 pitch in order to reduce the harmonic content of voltage.
- ❑ Robust mechanical structure permits easy access to connections.

ENGINE SPECIFICATIONS

Manufacturer	PERKINS
Model	404D-22G
Bore	3.3 in (84 mm)
Stroke	3.9 in (100 mm)
Number Of Cylinders	4
Piston Displacement	135 in3 (2.21L)
Compression Ratio	23.1:1
Cooling System Type	Liquid
Engine Type	In-Line – 4 Cycle
Aspiration	Normally
Engine Crankcase Vent System	Closed
Cylinder	Borable
EPA Tier	Interim 4
Governor Type	Mechanical
Frequency Regulation	
Constant Load	0.5%
Air Cleaner	Dry Element

- ❑ Robust industrial grade PERKINS diesel engine, for reliable endurance.
- ❑ Direct fuel injection system and swirl intake ports combine for a low fuel consumption and excellent transient response.
- ❑ Cylinder Head provides superior airflow through specially designed intake manifold ports, large valves and seats resulting in superior engine performance in torque reserve, fuel consumption and emissions. .
- ❑ Dynamically Balanced Crankshaft, with induction-hardened journal surfaces significantly increases wear life.
- ❑ Belt Fan Drive provides superior noise and vibration reduction.



STANDARD EQUIPMENT

ENGINE

- Air Cleaner
- Fuel Pump
- Fuel Filter
- Oil Pump
- Full Flow Oil Filter
- Jacket Water Pump
- Thermostat and Housing
- Exhaust Manifold Dry
- Oil Cooler
- Blower Fan & Fan Drive
- Radiator - Unit Mounted
- Electric Starting Motor 12VDC
- Housing & Flywheel

- Charging Alternator 12VDC
- Battery Kit & Battery Rack

GENERATOR

- Synchronous, Brush-less
- Four Pole
- Single Bearing
- Direct Coupled With Flex
- Class H Insulation
- Drip-Proof Construction

CONTROL PANEL

- Digital type
- Automatic Mains Failure module provides engine and electrical metering facilities via the LCD

display, accessed via the SCROLL push button

- Ac Voltmeter
- Ac Ammeter
- Frequency Meter
- Vibration Shock Mounts
- Engine Shutdowns
 - * High Water Temperature
 - * Low Oil Pressure
- Engine Gauges
 - * Battery Voltmeter
 - * Water Temperature
 - * Oil Pressure
 - * Running Time Meter

* LED and LCD alarm indication

GENERAL

- Steel Skid Base Frame
- Industrial Muffler
- Rain Cap
- Lifting Points
- Acrylic Enamel Paint
- In frame fuel tank

	Item	Units	Type of Operation and Application	
			60 Hz	
			Prime	Standby
Engine	Rated Speed	rpm	1800	1800
	Gross Engine Output	bhp (kWm)	29.5 (22)	31.4 (23.4)
	BMEP	psi (kPa)	96 (662)	102 (705)
	Mean Piston Speed	Ft/s (m/s)	19.4 (5.9)	
Cooling System	Ambient Air Temperature	°F (°C)	131 (55)	
	Coolant Capacity engine only	gal (L)	-	
	Coolant Capacity engine + radiator	gal (L)	1.85 (7)	
	Cooling system		Liquid (50% water + 50% Glycol)	
	Pusher Fan Air Flow	ft ³ /min (m ³ /min)	-	
	Heat rejection to coolant	BTU (kWh)	67902(19.9)	75749 (22.2)
	Heat rejection to exhaust	BTU (kWh)	56641 (16.6)	62442 (18.3)
	Heat rejection to air (intercooler)	BTU (kWh)	-	-
Fuel system	Fuel Type		Diesel No.2	
	Fuel Consumption @ 25% Power	gal/hr (L/hr)	0.44 (1.63)	0.46 (1.74)
	Fuel Consumption @ 50% Power	gal/hr (L/hr)	0.87 (3.26)	0.92 (3.47)
	Fuel Consumption @ 75% Power	gal/hr (L/hr)	1.3 (4.89)	1.38 (5.2)
	Fuel Consumption @ 100% Power	gal/hr (L/hr)	1.73 (6.52)	1.84 (6.94)
Air Requirement	Combustion Air Flow	ft ³ /min (m ³ /min)	61.4 (1.74)	
	Air Intake Restriction	In.H ₂ O (kPa)	12 (3) – Clean air filter	
	Maximun Allowable Restriction	In.H ₂ O (kPa)	25.7 (6.4) - Dirty air filter	
Exhaust System	Exhaust Gas Flow	ft ³ /min (m ³ /min)	153.2 (4.34)	168.1 (4.76)
	Max temperature	°F (°C)	824 (440)	950 (510)
	Connection Outlet Size Diameter	In. (mm)	2 (50.8)	
Lubrication System	Total Engine Oil Cap. w/ Filter(s)	gal (L)	2.8 (10.6)	
	Oil Filter Type		Cartridge	
	Oil Cooler		Water Cooled	
	Lube oil specifications		API-CC/SE - SAE 15W – 40	
	Lube oil consumption		< 0.15 % of full load fuel consumption	
	Oil and filters interval for replacement	hours	Check your engine operators book	
Engine Electricals	Battery Charging Alternator	Volts, Ground	12VDC, Negative	
	Battery Charging Alternator	Rated amps	65	
	Recommended Battery Cold Crank	CCA amps	550 (0°F / -18°C)	
	Starter Motor	Volts, Ground	12DC, Negative	
Ambient Deration	temperature	%	Consult Factory	
	altitude >	%	Consult Factory	
	altitude >	%	Consult Factory	



OPTIONAL EQUIPMENT

A21PE4

Cooling System

- Remote Radiator
- Jacket Water Heater
- Crankcase Oil Heater

Fuel System

- Fuel/Water Separator
- Day Tank
- Above Ground Fuel Tank
- Auxiliary Fuel Pump
- Sub-Base Fuel Tank
 - Double Wall
 - UL Listed

Exhaust System

- Industrial Grade Muffler
- Residential Grade Muffler
- Critical Grade Muffler
- Super Critical Grade Muffler

Start System

- Battery Nicad
- Battery Warmer Plate
- Battery Charger
 - Automatic Float Equalizing
 - Trickle

Switchgear

- Main Line Circuit Breaker
 - Shunt trip
 - Auxiliary switch
- Automatic Transfer Switch
- Paralleling
- Protective Relays

Generator

- Permanent Magnet Excitation
- Space Heaters
- Temperature Rise Detectors

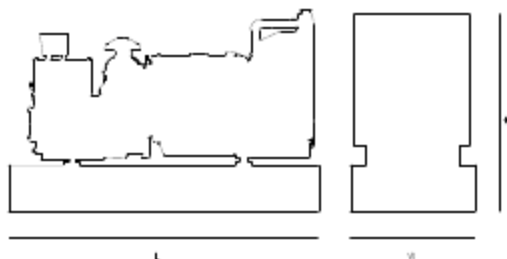
Control Panel

- Emergency stop button
- Microprocessor Control Panel
- NFPA 110 Ready
- Remote Annunciation Panel
- Audible Alarm

General

- Spring vibration isolators
- Automatic Transfer Switch
- Metal Enclosure
- Interior lights AC or DC
- Trailer
- Export Packaging
- Special Testing
- Warranties

DIMENSIONS AND WEIGHT



	Units	Open Unit	Sound Att. Unit
Length	In. (mm)	60 (1524)	75 (1905)
Width	In. (mm)	28 (711)	28 (711)
Height	In. (mm)	42 (753)	52 (1320)
Weight	Lbs (kg)	1225 (556)	1700 (772)

General configuration for reference only, do not use these dimensions for installation purposes. Contact your local dealer for certified drawings.

All Specifications and Materials are subject to change without prior notice.

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