

Aksa Power Generation has been producing industrial generator sets with an innovative compact design and excellence in quality for over 30 years. Aksa has been providing reliable power through three main production plants and over 15 branch offices worldwide.

Alternator	Voltage	Ph	Pf	Hz	Stand-by Ratings		Prime Ratings		gs Prime R	ntings	
(130 °C Rise)	Voltage				kW/kVA	Amp	kW/kVA	Amp	Pine Property		
	480/277V	3	0.8	60	178/222	268	161/201	242			
	440/254V	3	0.8	60	178/222	292	161/201	264			
Marathon MP-140-4	240/139V	3	0.8	60	178/222	535	161/201	484			
(431CSL6204)	240/120V	3	0.8	60	178/222	535	161/201	484			
	208/120V	3	0.8	60	178/222	618	161/201	559			
	240/120V	1	1	60	145/145	604	130/130	541			

Rating Definition

Stand-by Power (Maximum): Power available at variable load in the event of main power network failure. No over load is permitted.

Prime Power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation. The above ratings represent the engine performance capabilities to conditions specified in accordance with ISO 8528/5 & ISO3046.

Derating may be required for conditions outside of the test conditions.

Codes, Standards & Standard Features

EPA Certified Tier3 – **FLEX** engine powered generator set for Mobile / Prime Applications.

The Generator set is designed and manufactured in a facility certified to **ISO9001:2008** standards.

Perkins heavy duty four cycle industrial diesel engine delivers low emission, reliable power, fuel efficiency and fast response to load changes.

Non-proprietary control system provides total gen-set system integrated control, protections, metering, automatic starting/stopping with options of remote control, remote display or remote annunciation.

Aksa Power Generation provides single source responsibility for the generator set & accessories.

The generator set, with its components, are **prototype tested** and **production tested**.

Marathon industrial generators meet the requirements of BS EN 60034 and the relevant sections of other international standards.

Heavy duty base frame with integral pad **vibration isolators** eliminates the need for under unit spring vibration isolators.

POWER YOUR FUTURE



Manufacturer Perkins 110% Load 13.7 Model 110-61-66TAG 100% Load 12.8 Cylinders 6, in-line 75% Load 9.8 Max. power @ rated rpm; kWm (BH) 204 (274) 50% Load 6.9 Max. power @ rated rpm; kWm (BH) 204 (274) 50% Load 6.9 Aspiration & Cooling Turbo charged and sir charge cooled air charge cooled air charge cooled in (mm) 6.6 (402.8) Exhaust System Bore; in (mm) 4.13 (105) 5.0 (27) Max. back pressure; (kPa) 15 Stroke; in (mm) 16.2:1 Max. sehaust gas temp in manifold; (∞) 537 Governor type 1800 Exhaust outlet size; (mm) 90 Rotation 190 Cool	Engine Data		Fuel Consumption (gph)	
Model 1106D-B66TAG4 00% Load 12.8 Cylinders 6, in-line 75% Load 9.8 Max. power @ rated rpm; kWm (BIIP) 204 (274) 50% Load 6.9 Brake mean effective pressur; kPa 2065 For Sol Load 6.9 Aspiration & Cooling Turbo charged and air charge cooled Exhaust System 15 Bore; in. (mm) 4.13 (105) Exhaust gas flow; (ms/min) 35.5 Stroke; in. (mm) 5.0 (127) Max. exhaust gas temp in manifold; (**) 537 Governor type ECM, Isochronous co.5 Exhaust outlet size; (mn) 90 Rated rpm 1800 Exhaust outlet size; (mn) 90 Rated rpm 1800 Exhaust outlet size; (mn) 50 (122) Rated rpm 1800 Exhaust outlet size; (mn) 90 Rated rpm 1800 Exhaust outlet size; (mn) 90 (122) Charriang alternator 1800 Exhaust outlet size; (mn) 90 (122) Charriang alternator 120 Coolant pump flow; Lagly 20 (125) Starter motor rated voltage; (de)	Manufacturer	Perkins	110% Load	13.7
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Frake men effective pressure; kPa Aspiration & Cooling Turbo charged and air charge cooled 6.6 (402.8) Bore; in. (mm)	Cylinders	6, in-line	75% Load	9.8
Brake mean effective pressure; kPa 2065 Aspiration & Cooling Turbo charged oale air charge cooled	Max. power @ rated rpm; kWm (BHP)	204 (274)	50% Load	6.9
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Stroke; in (mm) 5.0 (127) Max. back pressure; (kPa) 15 Compression ratio 16.2:1 Max. exhaust gas temp in manifold; (°C) 537 Cowernor type ECM, Isochronous o.25 Rated rpm 1800 Rotation 1800 Rotation 1800 Engine Electrical System 12V, Negative Ground Alternator rating; (amp) 100 Colart pump drive Gear 1216, 1216 Starter motor power; (kW) 5.0 Cooling fan type Cooling fan type Pusher 134, 1216 Starter motor rated voltage; (dc) 12 Cooling fan air flow; m³/min 313.8 Engine Electronic	Total displacement; L (in³)	6.6 (402.8)	•	
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Governor type ECM, Isochronous o.25 Exhaust outlet size; (mm) 90 Rated rpm 1800	Stroke; in. (mm)	5.0 (127)		
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Battery quantity x rating & CCA 1 x 80Ah, 622 Cooling fan type Cooling fan air flow; m³/min Combustion air flow; m³/min 13.4 Fuel System Electronic Fuel pump CR200 Fuel supply connection size 3/8" NPT Max. fuel lift; m (ft) Fuel prime pump Manual Max. fuel flow; L/min (gal/min) 1.5 (0.4) Max. fuel flow; L/min (gal/min) 1.5 (0.4) Max. fuel flow; L/min (gal/min) 1.5 (0.4) Fuel temp at engine fuel pump inlet; °C (°F) Fuel filter & water separator Available Oil consumption @ full load	Starter motor power; (kW)	5.0	Coolant pump flow; L/min	215
Cooling fan air flow; m³/min 313.8 Combustion air flow; m³/min 13.4 Fuel System Electronic Fuel pump CR200 Fuel supply connection size Fuel return connection size Max. fuel lift; m (ft) Fuel prime pump Max. fuel flow; L/min (gal/min) Max. fuel flow; L/min (gal/min) 1.5 (0.4) Fuel temp at engine fuel pump inlet; °C (°F) Fuel filter & water separator Available Cooling fan air flow; m³/min 13.4 Engine coolant flow; L/min (gal/min) 216 (57) Heat rejection to coolant and oil; kWt 93.5 Heat rejection to ambient; kWt 16.2 Air filter Paper element Paper element Paper element Oil capacity; L (gal) 16.5 (4.36) Oil cooler Water cooled Fuel filter & water separator Oil temp (continuous operation); °C 125 Oil consumption @ full load	Starter motor rated voltage; (dc)	12	Thermostat operation range; °C	82-95
Combustion air flow; m³/min13.4Fuel SystemEngine coolant flow; L/min (gal/min)216 (57)InjectorElectronicHeat rejection to coolant and oil; kWt93.5Fuel pumpCR200Heat rejection to ambient; kWt16.2Fuel supply connection size3/8" NPTPaper elementFuel return connection size3/8" NPTPaper elementMax. fuel lift; m (ft)3 (9.84)Lubrication SystemFuel prime pumpManualLubrication SystemMax. fuel flow; L/min (gal/min)1.5 (0.4)Oil capacity; L (gal)16.5 (4.36)Fuel temp at engine fuel pump inlet; °C (°F)80 (176)Oil coolerWater cooledFuel filter & water separatorAvailableOil filterSpin on, replaceableOil temp (continuous operation); °C125Oil consumption @ full load	Battery quantity x rating & CCA	1 x 80Ah, 622	Cooling fan type	Pusher
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Fuel pump CR200 Fuel supply connection size Fuel return connection size Max. fuel lift; m (ft) Fuel prime pump Max. fuel flow; L/min (gal/min) Fuel temp at engine fuel pump inlet; °C (°F) Fuel filter Heat rejection to ambient; kWt Air filter Paper element Lubrication System Lubrication System Lubrication System Oil capacity; L (gal) Oil cooler Water cooled Fuel filter & water separator Oil filter Oil temp (continuous operation); °C Oil consumption @ full load	<u>Fuel System</u>			216 (57)
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Fuel prime pump Manual Max. fuel flow; L/min (gal/min) Fuel temp at engine fuel pump inlet; °C (°F) Fuel filter & water separator Available Oil capacity; L (gal) Oil cooler Oil cooler Oil filter Oil filter Oil temp (continuous operation); °C Oil consumption @ full load				
Max. fuel flow; L/min (gal/min) 1.5 (0.4) Oil capacity; L (gal) Oil cooler Water cooled Oil temp (continuous operation); °C Oil consumption @ full load			<u>Lubrication System</u>	
Fuel temp at engine fuel pump inlet; °C (°F) 80 (176) Oil cooler Water cooled Fuel filter & water separator Oil filter Oil filter Oil filter Oil temp (continuous operation); °C 125 Oil consumption @ full load	Max. fuel flow; L/min (gal/min)	1.5 (0.4)	Oil canacity: I (gal)	16 5 (4 26)
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Oil temp (continuous operation); °C 125 Oil consumption @ full load	Fuel filter & water separator	Available		
Oil consumption @ full load				
• •				 0
(as a % of fuel consumption) < 0.1			(as a % of fuel consumption)	<0.1



Alternator Data

Manufacturer	Marathon
Model	MP-140-4 (431CSL6204)
Design	4 Pole, drip proof rotating field
Exciter type	Brushless, self excited P.M.G. option is available
Stator	2/3 winding pitch
Rotor	Single bearing, flexible disc
Leads	12
Voltage regulator	Solid state, Volts/Hz
Insulation	Class H
Temp. rise @ 40°C ambient	130°C Prime
Alternator Cooling	Direct drive centrifugal blower
Max. over-speed; rev/min	2250
Voltage regulator	SE350

kW Rating at 1800rpm/60Hz

480/277V - 3ph – 0.8pf	185
208/120V - 3ph - 0.8pf	175
240/120V - 1ph – 1pf	133

Base-frame & Enclosure

The complete gen-set is mounted entirely on a heavy duty base frame with an integral semi double wall 310gal fuel tank.

Anti vibration isolators are installed between engine/alternator supports and the base frame.

All enclosure parts are designed with module principles without welding.

Enclosure has four doors on each side for easy serviceability and back door for control system.

Exhaust silencer is protected against environmental influences and is internally mounted within enclosure. Exhaust pipe thermally insulated on engine compartment.

All metal enclosure parts are painted by electrostatic polyester powder paint.

Enclosure has lockable fuel filling cap from outside.

Emergency stop switch externally mounted on enclosure.

Control System

DSE7320 is an advanced control system, suitable for a wide variety of single, diesel or gas, gen-set applications. Monitoring and an extensive number of engine parameters, the module displays warnings, shutdowns and engine status information on the back lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts (with external modem).

- UL recognized, NFPA110 Level 1 compatible
- LCD text display, key menu navigation and front panel editing
- Off/Manual/Auto model switch
- Two wire starting/stopping in Auto mode
- Engine exerciser
- IP65 front panel rating with supplied sealing gasket
- Configurable 9 inputs, 8 outputs with expansion capability
- Real time clock provides accurate event logging
- \bullet Fully configurable via DSE Configuration Suite PC software
- Remote SCADA monitoring and BMS integration features
- License free PC software

Protections

- Gen. Voltage under/over
- Gen. Frequency under/over
- Engine Speed under/over
- Engine Oil pressure low
- Engine Temp. low/high
- Battery Voltage low/high
- · Weak battery
- Fail to start/stop
- · Charge fail
- Over current & load(kW/kVAr)
- · Unbalanced load
- Independent Earth Fault
- Reverse Power
- Fuel level low/high (optional
- Loss of speed signal

Instruments

- Gen. Voltage (L-L/L-N)
- Gen Frequency
- Engine Speed
- Oil Pressure
- $\bullet \ Water \ Temperature$
- Battery Voltage
- Run time
- Engine maintenance due
- Phase sequence
- Pwr. monitoring(kWh / kVAh / kVArh)
- Power (kW/kVA/kVAr)
- · Power factor
- Gen. Current (L1-L2-L3)
- · Earth current



Convenience Panel Accessories

- (2) Two 20A, 120V GFCI receptacles and breakers
- (3) Three 50A, 240V twist lock receptacles and breakers
- \bullet 5-15A, 125V inlet receptacles for battery charger and water heater
- Two wire remote start station
- · Generator set voltage adjust rheostat
- (10) 400A rated, stud type quick connect cam-locks

Voltage Selector Switch

- Three positions at 480/277V, 208/120V 3ph & 240/120 1ph
- Product of Salzer or Kraus&Naimer

Standard Features & Accessories

- Trailer w/spare tire and tool box
- Sound Attenuated Steel Enclosure
- Heavy Duty Steel Base-frame
- Residential Grade Silencer Inside Enclosure
- Flex Fuel Lines
- Oil Drain Valve & Extension
- Convenience Panel
- Voltage Selector Switch 3 position
- · Emergency Stop Switch
- · Battery, Battery Rack & Cables
- Battery Charger
- Main Line CB
- Jacket Water Heater
- Operations Manual
- 1 Years / 2000hours Limited Warranty

Dimensions & Weight & Sound Level

Gen-set Without Fuel Tank

Type	Generator Set	Generator Set	
	Only	On Trailer	
L (in.)	128	218	
W (in.)	46	68	
H (in.)	87	109	
Weight (lb)	5650	9250	
Sound Level (dBA	78		

^{*}Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

Trailer

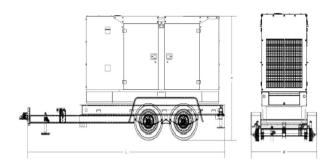
- DOT approved 14,000lbs heavy duty dual axle trailer
- Spring axles w/electric brakes
- Breakaway kit with charger
- 7,000lbs front jack and 5,000lbs rear stabilizer jacks
- 7 pin trailer plug
- Tool box and spare tire

Circuit Breaker

- 600Amp capacity main line circuit breaker
- Shunt trip controller by generator set control

Optional Accessories

- Upsized Alternator
- PMG Excitation
- Alternator Anti-condensation Heater
- 4 Position VSS
- Fuel Level Monitoring on Controller & High Fuel Alarm
- Fuel Line Check Valve
- Oil Temperature Gauge
- · Oil Heater
- Battery Charger 10Amp
- · Battery Heater Blanket
- Main Line CB (100% rated)
- · Remote Monitoring and Control
- Remote Annunciator



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KAZANCI HOLDÍNG