



Quote Number	Quote Name	Quote Date	Expiration Date	Currency
20081-006-LD-B	Build Sheet – <b>FSA Spec 121</b>	FSA	FSA	USD
Sales Person	Manufacturing Plant	Quote Entered By	Contact No.	
Larry Davis	L.J. Power	Larry Davis	737-703-5000	
Quoted To:		FOB:		
N/A		Jobsite		

<u>Line No.</u>	<u>Qty</u>	<u>Part</u>	<u>Description</u>	<u>Unit Price</u>	<u>Extended Total</u>
000010	1	LJP-AT150	150 kW Rental Grade Towable Including: <ul style="list-style-type: none"> <li>• Battery Charger</li> <li>• Multi-Voltage Selector Switch</li> <li>• Receptacle Panel</li> <li>• E-Stop</li> <li>• Main Line Circuit Breaker</li> <li>• Digital Controls</li> <li>• Sound Attenuated Enclosure w/ Critical Silencer</li> <li>• 2 Year Warranty</li> </ul>	Included	Included
000020	1	Trailer	10,000 lb with integral Diesel Tank	Included	Included
000030	1	Freight	Freight	Included	Included
000040	1	Startup	Onsite Startup, Testing and Training by Factory Rep.	Included	Included
			<b>Total Quote:</b>		<b>\$75,000.00</b>

Alternator (125 °C Rise)	Voltage	Ph	Pf	Hz	Stand-by Ratings		Prime Ratings	
					kW/kVA	Amp	kW/kVA	Amp
Stamford UC1274H	480/277V	3	0.8	60	150/187	226	135/169	203
	440/254V	3	0.8	60	150/187	246	135/169	221
	240/139V	3	0.8	60	150/187	451	135/169	406
	240/120V	3	0.8	60	150/187	451	135/169	406
	208/120V	3	0.8	60	150/187	520	135/169	468
	240/120V	1	1	60	150/150	625	135/135	562



## 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.

**L.J. Power** provides **single source responsibility** for the generator set & accessories.

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

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

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

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

**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.

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

## Engine Data

Manufacturer	<b>Perkins</b>
Model	<b>1106D-E70TAG2</b>
Cylinders	6, vertical in-line
Max. power @ rated rpm; kWm (BHP)	171.4 (229.9)
Brake mean effective pressure; kPa	1731
Aspiration & Cooling	Turbo charged and air charge cooled
Total displacement; L (in <sup>3</sup> )	6.6 (402.8)
Bore; in. (mm)	4.13 (105)
Stroke; in.(mm)	5.0 (127)
Compression ratio	18.2:1
Governor type	ECM, Isochronous 0.25
Rated rpm	1800
Rotation	Clockwise

## Engine Electrical System

Charging alternator	12V, Negative Ground
Alternator rating; (amp)	100
Starter motor power; (kW)	3.3
Starter motor rated voltage; (dc)	12
Battery quantity x rating & CCA	1 x 80Ah, 622

## Fuel System

Injector	Electronic
Fuel pump	CR200
Fuel supply connection size	3/8" NPT
Fuel return connection size	3/8" NPT
Max. fuel lift; m (ft)	3 (9.84)
Fuel prime pump	Manual
Max. fuel flow; L/min (gal/min)	1.5 (0.4)
Fuel temp at engine fuel pump inlet; °C (°F)	80 (176)
Fuel filter & water separator	Available

## Fuel Consumption (gph)

110% Load	11.4
100% Load	10.6
75% Load	8.3
50% Load	6.2

## Exhaust System

Exhaust gas flow; (m <sup>3</sup> /min)	30.7
Max. back pressure; (kPa)	15
Max. exhaust gas temp in manifold; (°C)	469
Exhaust outlet size; (mm)	90

## Cooling System

Radiator ambient temp; °C (°F)	50 (122)
Coolant capacity; L (gal)	21 (5.5)
Coolant pump drive	Gear
Coolant pump flow; L/min	170
Thermostat operation range; °C	82-95
Cooling fan type	Pusher
Cooling fan air flow; m <sup>3</sup> /min	313.8
Combustion air flow; m <sup>3</sup> /min	12.7
Engine coolant flow; L/min (gal/min)	170 (44.9)
Heat rejection to coolant and oil; kWt	80.1
Heat rejection to ambient; kWt	13.5
Air filter	Paper element

## Lubrication System

Oil capacity; L (gal)	16.5 (4.36)
Oil cooler	Water cooled
Oil filter	Spin on, replaceable
Oil temp (continuous operation); °C	125
Oil consumption @ full load (as a % of fuel consumption)	<0.1

## Alternator Data

Manufacturer	<b>STAMFORD</b>
Model	<b>UCI274H</b>
Design	4 Pole, drip proof rotating field
Exciter type	P.M.G.
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	125°C Prime
Alternator Cooling	Direct drive centrifugal blower
Max. over-speed; rev/min	2250
Voltage regulator	MX341

## kW Rating at 1800rpm/60Hz

480/277V - 3ph – 0.8pf	204
208/120V - 3ph – 0.8pf	190
240/120V - 1ph – 1pf	142.5

## Base-frame & Enclosure

The complete gen-set is mounted entirely on a heavy duty base frame with an integral double wall 315gal/24hr 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
- 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/kVA<sub>r</sub>)
- 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
- Water Temperature
- Battery Voltage
- Run time
- Engine maintenance due
- Phase sequence
- Pwr. monitoring (kWh / kVAh / kVA<sub>r</sub>h)
- Power (kW/kVA/kVA<sub>r</sub>)
- 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
- 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

## Trailer

- DOT approved 12,000lbs 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

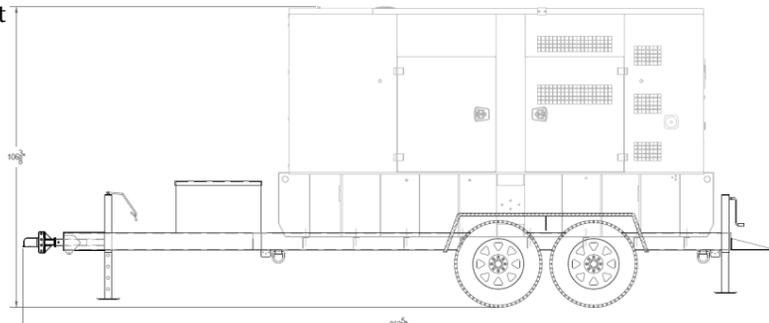
## Optional Accessories

- Upsized Alternator
- 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
- **Critical Silencer**
- Main Line CB (100% rated)
- Remote Monitoring and Control
- Remote Annunciator

## Dimensions & Weight & Sound Level

### Gen-set With Fuel Tank

Type	Generator Set Only	Generator Set On Trailer
L (in.)	153	264
W (in.)	46	82
H (in.)	82	107
Weight (lb)	7400	9300



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