



DIESEL GENERATING SET 440/254V - 60 Hz - 3PHASE

POWER RATING		PRIME	STANDBY
POWER	kVA	1200	1450
	kW	960	1160
Rated Speed	r.p.m	1800	
Available Voltages	V	480/277-440/254-220/127-208/120 etc	
Rated at power factor	Cos Phi	0.8	

Standard Reference Conditions: 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 hours of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hours of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 hours of operation shall not exceed 70 % of the ESP

ENGINE		PRIME	STANDBY
Rated Output	kW	1063	1279
Manufacturer		Cummins	
Model		QSK38-G5	
Number of Cylinders and arrangement		4 Cycle;60°Vee, 16 Cylinder Diesel	
Aspiration Type		Turbocharged and Aftercooled	
Bore and Stroke	mm	159X159	
Compression Ratio		0.625694444	
Cooling System		Water-cooled	
Engine Speed/Frequency	rpm/Hz	1500/50HZ	
Coolant Capacity	L	300	
Starting System		Electric 24 volt DC	
Displacement	L	50.3	
Lubricant system Capacity	L	37.8	

Battery Volatge / Capacity		24VDC			
Governor	Type	ECU			
Air Filter	Type	Dry			
Fuel Consumption	Load	100%	75%	50%	25%
	L/h	262.0	202.0	153.0	90.0

ENGINE:Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

COOLING:Radiator and colling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 50 °C,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

ELECTRICAL SYSTEM:12/24V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM:Heavy duty industrial exhaust silencer with flexible piping.

ALTERNATOR MANUFACTURER	STAMFORD	LEROY SOMER	PRIME POWER
Model	LVI634G	LSA50.2M6	SMG634K
Excitation System	PMG	SHUNT	PMG
Number of Poles	4		
Connection Type	Star-Series		
Insulation Class	Class H		
Voltage Regulator	A.V.R. (Electronic)		
Bracker Type	Single bearing		
Steady Voltage Precision	± 0.5%	±1 %	± 0.5%
Couping System	Flexible disc		
Coating Type	Standard (Vacuum impregnation)		
Underspeed Protection	Standard		
Ingress Protection Rating	IP23		
Wave Form NEMA=TIF	<50		

CONTROL PANEL: COMAP AMF20 Or DSE7320

Auto Mains Failure Control Panel

Panel equipments:

- Δ Control with AMF module
- Δ Static battery charger
- Δ Emergency stop push button



a) Generating set control module features:

- Δ The module is used to monitor main supply and starts and stops of a standby generating set
- Δ Micro-processor based design
- Δ Automatic control of main and generator contactors
- Δ Monitors engine performance and AC power output LED alarm indication

c) Alarms:

- Δ Over and Under Speed
- Δ Low and High Battery Volt.
- Δ Start and Stop Failure
- Δ Charge fail

- Δ Front panel configuration of timers and alarm trip points
- Δ CAN and magnetic pick-up versions(specify on ordering)
- Δ Easy push button control
- Δ STOP/RESET - MANUAL - AUTO - TEST – START

- Δ Over Current
- Δ Under / Over Generator Voltage
- Δ Low Oil Pressure
- Δ Emergency stop
- Δ High engine temperature

b) Metering via LED display:

- Δ Generator Volts (L-L / L-N) Generator kVA
- Δ Engine oil pressure (PSI-Bar) Generator kW
- Δ Generator Ampere (L1,L2,L3) Generator Cos (σ)
- Δ Engine temperature (°C&°F)
- Δ Generator Frequency (Hz)
- Δ Engine run hours
- Δ Mains Volts (Ph-Ph/Ph-N)

d) LED indications

- Δ Mains available
- Δ Generator available
- Δ Mains on load
- Δ Generator on load

Voltage Regulation

- Δ Voltage regulation maintained within ±0.5% Δ From no load to full load
- Δ Between 0.8 and 1.0 lagging and unity Δ At speed droop variation upto 4.5%

Frequency Adjustable Ratio

Change load from 0-100%,within 1.0%(electric speed regulator),within 4.5%(mechanical speed regulator)

Frequency Undulation

- Δ Load from 0-100%,frequency undulation within 0.25% Δ Effect factor of Telecom
- Δ No load wire volts max undulation ration\ within 1.8% Δ TIF better than 50
- Δ Three Phase balanced load in the order of 5% Δ THF to IEC60034 Part 40 better than 2%

Robust Corrosion Resistant Construction

- Δ Black finish stainless steel lock and hinges Δ Two large doors on each side
- Δ Body made from steelcomponents treated with polyester powder coating
- Δ Lube oil and cooling water drains pipes to exterior of the enclosure

Security and Safety

- Δ Control panel viewing window in a lockable access door Δ Cooling fan and battery charging alternator fully guarded
- Δ Emergency stop button mounted on enclosure interior Δ Exhaust silencing system totally enclosed for operator safely



Generating Sets Optional Features				
Engine	Alternator	Generator Sets	Fuel System	Canopy
<ul style="list-style-type: none"> Δ Water Jacket Preheater Δ Oil Preheater Δ Engine oil feeding and drain pump 	<ul style="list-style-type: none"> Δ Winding Temperature Measuring Instrument Δ Alternator Preheater Δ PMG Δ Anti-damp and anti-corrosion treatment Δ Anti-condensation heater 	<ul style="list-style-type: none"> Δ Auto Transfer Switch Δ Parallel control panels Δ Trailer type Gensets Δ Residential Silencer Δ Bulk fuel tank 	<ul style="list-style-type: none"> Δ Low fuel level alarm shutdown Δ Automatic Fuel Filling System 	<ul style="list-style-type: none"> Δ Super silent type

Quality Standards

ISO9001:2000,ISO14000,ISO3046
 ISO8528 BS4999

BS5514,AS1359,ICE34
 CE Compliance

Gensets Dimensions & Weight & Fuel Tank Capacity

Open type:LxWxH (mm),Dry Weight / Kgs, Fuel tank (L)
 4550x2090x2444, 8200kgs

Silent type:LxWxH (mm), Dry Weight / Kgs,Fuel tank (L)
 5806x2267x2554,11900kgs

Local Distributor:



FUZHOU SUNSHINE MACHINERY CO.,LIMITED
 Fuzhou, Fujian, China.

Tel:86-591-88204179 FAX:86-591-87723357
 Email: sales@sunshinegenerator.com www.primepowergenset.com



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