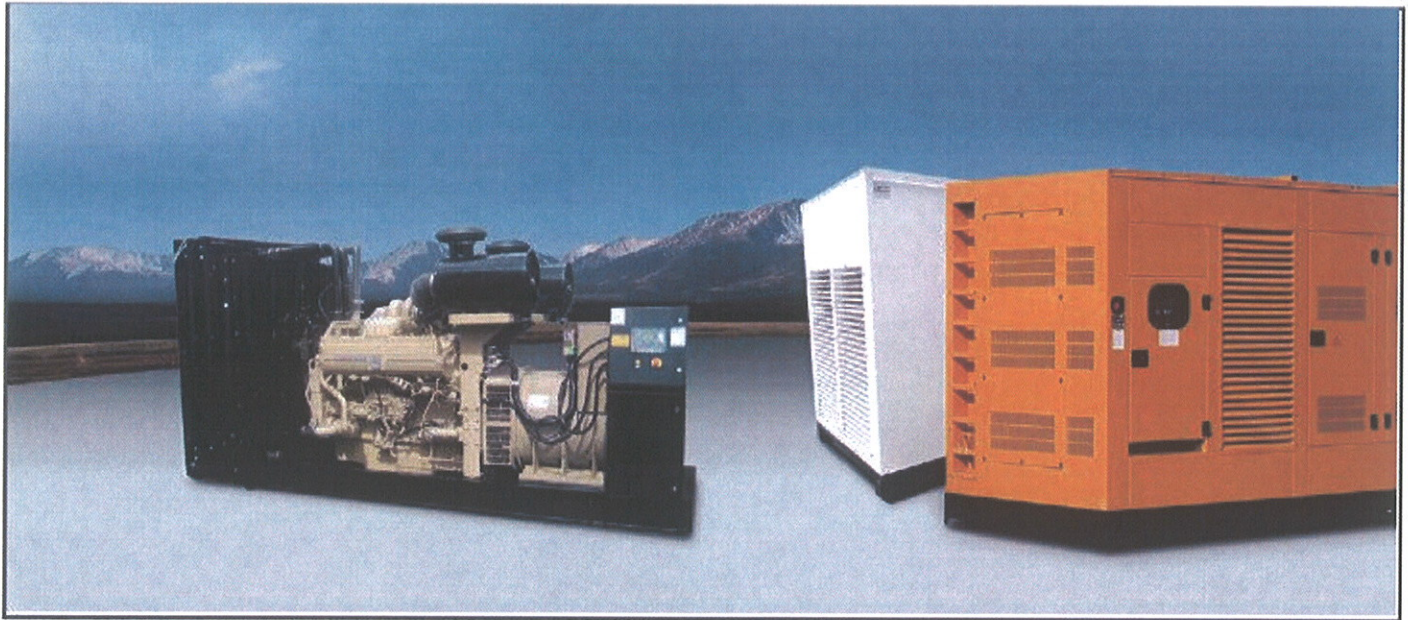


# Technical Data

190-600V DIESEL 01-01-2012



CUMMINS Engine: QSX15-G8 Electronic Governor	Alternator: Stamford HCI544D	Generator Model:	VIK500 (Open)
	Optional: Leroy-somer Meccalte		VIK500C (Silent)

50Hz 1500 r.p.m	3 Phase 4 Wires	Power Factor: Cos $\phi$ = 0.8	Emissions Certification:	N/A
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RATINGS	Prime Power (PRP)		Standby Power (LTP)		Rated Current (A)
	kW	kVA	kW	kVA	Amps
Voltage (V)					
440/254	400	500	440	550	656.1
415/240	400	500	440	550	695.6
400/230	400	500	440	550	721.7
380/220	400	500	440	550	759.7

## RATINGS:

All three Phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at 0.8 or 1.0 power factor.

## Prime Power:

Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year in accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1.

## Standby Power:

Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure. No overload available for this service as relevant alternators are peak continuous rated at 27°C.

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## Standard Features

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- ▲ High efficient water cooled diesel engine
- ▲ Brushless alternators (Class H, with AVR.)
- ▲ Heavy duty rubber anti-vibration mountings
- ▲ 12/24V starter batteries and connecting cables
- ▲ Separate engine-drive battery charging alternator
- ▲ Industrial silencer for open type generator sets

- ▲ Residential silencer for open type generator sets
- ▲ Auto start / Digital Tide Easycon Control Panel
- ▲ Wiring with IEC standard
- ▲ Factory Test Certificate
- ▲ Operation & Maintenance Manual & Diagrams
- ▲ Worldwide Product / Technical Support

- ▲ Radiator with cap and drain point.
- ▲ Fully guarded engine driven fan
- ▲ Circuit Breaker - 3 pole (MCCB)
- ▲ Base fuel tank for 6-8 hours running at 100% load
- ▲ Oil filter - Diesel filter - Air filter
- ▲ Fully welded steel baseframe with lifting and

fork-lifting facilities.  
▲ Sound proof & Weather protective enclosures for silent type generator sets.

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## Optional

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- ▲ Automatic Transfer Switch (ATS)
- ▲ Water - fuel separator
- ▲ Water heater for severe cold weather
- ▲ Lube oil heater for severe cold weather
- ▲ 50°C-60°C Radiator

- ▲ Dual wall fuel tank base
- ▲ Fuel level sensor
- ▲ Maintenance free battery
- ▲ Additional CE Features Selection

- ▲ Extra air filters for time-maintenance
- ▲ Extra diesel filters for time-maintenance
- ▲ Extra oil filters for time-maintenance
- ▲ Separated standing fuel tank
- ▲ Low coolant level sensor
- ▲ Full range of attachments and options available for alternator

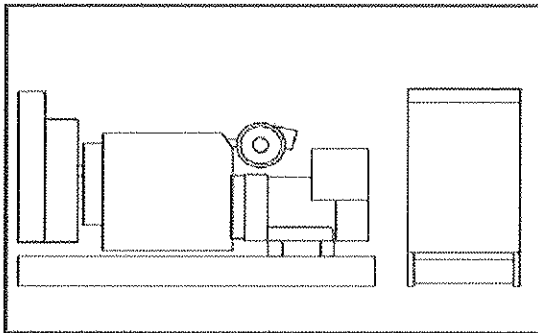
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## Overall Dimensions (mm) & Weight (kg)

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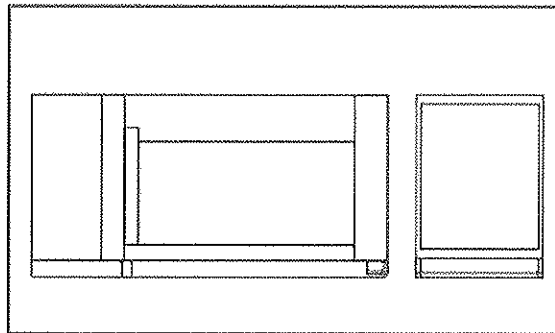
### Open Type

Length:  
3400  
Width:  
1300  
Height:  
2000  
Weight:  
4100



### Silent Type

Length:  
5000  
Width:  
1600  
Height:  
2250  
Weight:  
5500



Dimension and design are subject to change without notice.

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## Warranty

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The goods supplied are under warranty against defects in materials and workmanship for a period of 12 months or 1000 hours whichever come first from the date of delivery to the end user (except the damageable spare parts of genset caused by incorrect man-made operation), and that the aforementioned warranty for the same token is back up by the engine & alternator manufactures and their global distributors.

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## Engine Specification

50HZ

<b>General Performance</b>	
Manufacture	Cummins
Engine Model	QSX15-G8
Engine Type	4 cycle, In-line, 6-cylinder
Engine Speed	1500 r.p.m
Base Output Power	444kW/595hp
Standby Power	500kW/670hp
Governor Type	Electronic
Air Intake Way	Turbocharged and Charge Air Cooled
Displacement	15L
Cylinder Bore * Stroke	137mm x 169mm
NO. of Cylinders	6
Compression Ratio	17:1
Engine Idle Speed	675 - 775 rpm
Brake Mean Effective Pressure	2371 kPa
Piston Speed	8.4 m/s
Intake Air Flow	540Litres/sec.
Air Cleaner Type	Dry

<b>Lubrication System</b>	
Oil Capacity (High - Low)	83 - 72 Litres
Maximum Oil Temperature	121°C
Total System Capacity - Including Filter	91Litres

<b>Fuel System</b>	
Type Injection System	Cummins HPI-TP
Fuel Consumption at 100% Standby power	123 Litres/hour
Fuel Consumption at 100% Prime power	103 Litres/hour
Fuel Consumption at 75% Prime power	78.7 Litres/hour
Fuel Consumption at 50% Prime power	54.7 Litres/hour
Fuel Consumption at 25% Prime power	30.3 Litres/hour
Fuel Tank Capacity	
- Open Type Genset	6 Hours at Full Load
- Silent Type Gensets	618 Litres

<b>Cooling System</b>	
Coolant Capacity - Engine Only	24 Litres
Standard Thermostat (Modulating) Range	82 - 93°C
Maximum Top Tank Temperature	
- Standby Power	110°C
- Prime Power	104°C

<b>Exhaust System</b>	
Exhaust Gas Flow	1255 Litres/sec.
Exhaust Gas Temperature	488-515°C
Maximum Back Pressure	76 mm Hg
Exhaust Pipe Size	N/A

<b>Electric System</b>	
Electrical System Voltage	24V
Battery	Maintenance-free
Connecting Cables	Available

<b>Air Intake System</b>	
Recommended intake piping size	N/A
Maximum Intake Air Restriction	
- Dirty Element	635mm H <sub>2</sub> O
- Clean Element	381mm H <sub>2</sub> O

<b>Thermal</b>	
Radiated Heat to Ambient	33-40 kW
Heat Rejection to Coolant	141-167 kW
Heat Rejection to Exhaust	329-390 kW

## Alternator Specification

<b>General Data</b>		50HZ/1500R.P.M	
Manufacture / Brand	Stamford	Prime Output Power	400kW/500kVA
Model	HCI544D	Standby Output Power	412kW/515kVA
AVR Model	AS440	Insulation Class	H
Coupling / Bearing	Direct / Single Bearing	Voltage Regulation	±1 %
Phase	3 Phase	Total Harmonic TGH / THCat no load	<1,5 %-on load <5%
Power Factor	Cos φ = 0.8	Wave form : NEMA = TIF - (*)	< 50
Winding pitch - Code	2/3 - (N° 6)	Wave form : I.E.C. = THF - (*)	<2%
Drip Proof	IP 23		≤ 1000 mAltitude
Excitation	Shunt	Overspeed	2250 min -1