

# VPB650UKS

Canopied



\*Image for illustration purposes only, actual product may differ.

ENGINE	ALTERNATOR	MODEL	POWER FACTOR	EMISSIONS
Baudouin 8M21G660/5	Stamford HCI544E	VPB650UKS (Canopied)	Factor $\Phi = 0.8$	N/A
50Hz	1500rpm	3-Phase		

RATINGS	PRIME POWER	STANDBY POWER	RATED CURRENT	FUEL CONSUMPTION
Voltage	PRP	ESP	Amps	@100% load
(V)	kWe      kVA	kWe      kVA	(A)	L/h
400/230	472.6      590.8	517.9      647.3	852.8	124.2

## RATINGS

All three-phase generator sets are rated at 0.8 power factor.

All single-phase generator sets are rated at unity or 1.0 power factor.

## PRIME OUTPUT

This rating is applicable for supplying continuous electrical power at variable load.

There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

## STANDBY OUTPUT

This rating is applicable for supplying electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

The above ratings are in accordance with ISO8528-1 and ISO3046-1. Standard reference conditions: 25°C, 100m A.S.L., 30% relative humidity.

# ENGINE

## Baudouin 8M21G660/5

		Units	
General performance	Frequency	Hz	50
	Type		4-Stroke, Diesel Fuel
	Engine Speed	r/min	1500
	Number of cylinders / arrangement		6 cyl / In-line
	Displacement	Litres	16.72
	Aspiration		Turbocharged
	Combustion system		Direct injection
	Governor type		ECU
	Bore / stroke	mm	127 x 165
	Compression ratio		15:1
	Engine power (gross)	kW	Prime: 530   Standby: 580
	Cooling system		Water cooled
	Rotation		Anti-clockwise viewed on flywheel
Fuel system	Fuel consumption at 110% prime power	Litres/hour	140.7
	Fuel consumption at 100% prime power	Litres/hour	124.2
	Fuel consumption at 75% prime power	Litres/hour	95.4
	Fuel consumption at 50% prime power	Litres/hour	64.7
	Standard fuel tank capacity	Litres	1120
Air system	Air inlet		Mounted air filter
	Air filter type		Dry
Fuel and fuel system	P Type Pump - Common Rail		YES
	Duplex fuel filter		YES
Oil system	Total oil system capacity	Litres	45
	Maximum sump capacity	Litres	N/A
	We sump with filler and dipstick		YES
	Full-flow spin-on oil filters		YES
Cooling system	Total system capacity		
	• With radiator	Litres	101
	• Without radiator	Litres	N/A
	Thermostat operation range	°C	Up to 50°C
	Maximum top tank temperature	°C	N/A
Electric system	Electrical system voltage	VDC	12
	Battery		Maintenance-free
Available options	Battery charger		Included
	Engine water heater		Included
	Battery isolator switch		Optional





# ALTERNATOR

Stamford HCI544E

		Units	
General data	Manufacturer / brand		Stamford
	Model		HCI544E
	Coupling / number of bearings		Flexible Disc / Single Bearing
	Phase / poles		3-Phase / 4-Pole
	Power factor		Cos $\Phi$ = 0.8
	AVR regulation		YES
	Voltage regulation		$\pm 1$ %
	Insulation class		H
	Drip proof		IP23
	Excitation		AVR, Brushless
	Altitude	m	$\leq 1000$
	Overspeed	min -1	2250





# DSE CONTROLLER SUMMARY

Deepsea (DSE) Controller

Controller model / Deepsea DSE	DSE4520 (Optional)	DSE6120 (Optional)	DSE7320 Included	DSE8610 (Optional)
Controller photos				
Standard supply	○	○	●	○
Viewable parameters				
Phase voltage	X	3	3	3
Current	Instrumentation	●	●	●
Frequency	●	●	●	●
Active power	○	●	●	●
Reactive power	○	●	●	●
Apparent power	X	●	●	●
Power factor	○	●	●	●
Generator protection				
Abnormal voltage	●	●	●	●
Overcurrent warning	○	●	●	●
Overcurrent protection	●	●	●	●
Over frequency protection	●	●	●	●

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## Deepsea (DSE) Controller

Controller model / Deepsea DSE	DSE4520 (Optional)	DSE6120 (Optional)	DSE7310/20 (Optional)	DSE8610/20 (Optional)
Controller photos				
<b>Engine figure</b>				
Oil pressure	●	●	●	●
Coolant temperature	●	●	●	●
Fuel meter / fuel sensor	● / ○	● / ○	● / ○	● / ○
Speed	●	●	●	●
Battery voltage	●	●	●	●
Elapsed time	●	●	●	●
<b>Engine protection</b>				
Low oil pressure warning	X	●	●	●
Low oil pressure protection	●	●	●	●
High temperature warning	○	●	●	●
High temperature protection	●	●	●	●
Overspeed warning	X	●	●	●
Overspeed protection	○	●	●	●
Alternator charger	●	●	●	●
<b>Functions</b>				
Remote start	●	●	●	●
AMF (Auto Main Failure)	●	●	●	●
Programmable input	●	●	●	●
Programmable output	●	●	●	●

**REMARK:** ● Standard supply ○ Available as optional X Not available



# ENCLOSURE / CANOPY

Sound-attenuated or open option



*"Ensures a quieter life with our sound attenuation system"*

## FEATURE

Extremely rugged and highly corrosion resistant construction

Compatible with 2000/14/EC directives, certified noise emission level

2 or 4 point lifting for transport according to cabin size with certain models also including fork pockets

Hidden exhaust inside the canopy with weather flap to the exterior

Emergency stop button located on the canopy

Improved air suction channel to ensure homogenous cooling in the canopy

Filler Lid on top of canopy for radiator and antifreeze top up

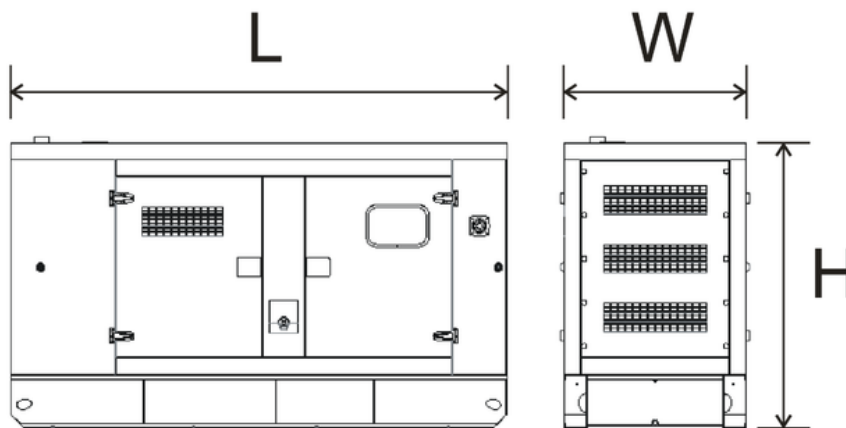
Power coated paint system protecting against corrosion and rust

Improved sound insulation performance

Demounted parts for easier transportation and maintenance

# OVERALL DIMENSIONS, WEIGHT & NOISE

Frame type	Dimensions (L x W x H) mm	Weight kg	Base tank @ 100% load		Noise level dBA(A) at 7m @ 75% load
			Hours	Litres	
Canopied	2164 x 4908 x 2494	6254	9	1120	75.9



## GFE AUTOMATIC TRANSFER SWITCH

### A.T.S - 4 Poles

We offer as an optional accessory, not only a changeover switch but also an integrated mains detection and switch system for your 24 hour power protection. The system enables automatic start-up and operation of the generating set in the event of a mains power failure, overvoltage or loss of a mains automatic retransfer once it comes back.

#### System advantages

Automatically transfer and re-transfer load from main power to gen-power without operator intervention (both automatic and manual)

ATS Controller (AMF function)

Available from 32 - 4000A

Available in standard, bypass isolation and service-entrance configurations

Configurable in open, closed and programmed transition operating modes

Designed to interface seamlessly with all AMF generators and switchgear

Drip proof IP42 enclosure

Easy installation: wall-mounted and floor standing



## WARRANTY COVERAGE

Generators used with commercial utility source: From One (1) to Two (2) years. Please see GFE Warranty Terms and Conditions of sale.