# VPB650UKS



### Canopied



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

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

RATINGS	PRIME F	POWER	STANDE	Y POWER	RATED CURRENT	FUEL CONSUMPTION
Voltage	PF	RP	E	SP	Amps	@100% load
(V) 400/230	472.6	590.8	517.9	647.3	(A) 852.8	L/h 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**

Frequency   Frequency   Frequency   Frequency   Frequency   Type   A-Stroke, Diesel Fuel	Baudouin 8M	21G660/5	Units		
Performance   Fupe   Fupine Speed   Fupine Speed Spe	General	Frequency	Hz	50	
Number of cylinders / arrangement Displacement Displaceme		Туре		4-Stroke, Diesel Fuel	
Displacement   Litres   16.72		Engine Speed	r/min	1500	
Aspiration Turbocharged Combustion system Governor type ECU Bore / stroke Bore Bore / stroke Bore Bore / stroke		Number of cylinders / arrangement		6 cyl / In-line	
Combustion system Governor type Governor type Governor type Bore / stroke / s		Displacement	Litres	16.72	
Governor type  Bore / stroke  Bore / stroke  Compression ratio  Engine power (gross)  Cooling system  Water cooled  Rotation  Fuel System  Fuel consumption at 110% prime power  Fuel consumption at 100% prime power  Fuel consumption at 75% prime power  Fuel consumption at 50% prime power  Litres/hour  Fuel consumption at 50% prime power  Litres/hour  Litres/hour  Fuel consumption at 50% prime power  Litres/hour  Litres/hour  Butters/hour  Air  Standard fuel tank capacity  Litres  Air filter type  Dry  Fuel and fuel system  Pyep Pump - Common Rail fuel system  Oil System  Oil System  Awaimum sump capacity  Litres  Mownted air filter  YES  Oil System  Total oil system capacity  Litres  N/A  We sump with filler and dipstick  Full-flow spin-on oil filters  Total system capacity  - With radiator  With radiator  Litres  N/A  Litres  N/A  Thermostat operation range  'C Up to 50°C  Maximum top tank temperature  'C N/A  Electric system  Battery  Battery  Battery Maintenance-free  Included  Included				Turbocharged	
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 55% prime power Litres/hour 95.4  Fuel consumption at 55% prime power Litres/hour 95.4  Fuel consumption at 55% prime power Litres/hour 64.7  Standard fuel tank capacity Litres 1120  Air Air filter type Dry  Fuel and fuel system Duplex fuel filter  Oil system Total oil system capacity Litres 45  Mounted air filter  YES  Cooling system Asimum sump capacity Litres N/A  We sump with filler and dipstick YES  Full-flow spin-on oil filters  Total system capacity Litres N/A  We sump with filler and dipstick YES  Cooling system The filler of the fill				Direct injection	
Compression ratio Engine power (gross)  Cooling system  Rotation  Fuel system  Fuel consumption at 110% prime power Fuel consumption at 75% prime power Fuel consumption at 75% prime power Fuel consumption at 75% prime power Fuel consumption at 50% prime power Fuel and fuel tank capacity Litres  Air inlet  Air inlet  Air liter type  Dry  Fuel and fuel system  Air filter type  P Type Pump - Common Rail Fuel system  Duplex fuel filter  VES  Oil Total oil system capacity Litres  Maximum sump capacity Litres  N/A  We sump with filler and dipstick Full-flow spin-on oil filters  YES  Cooling system  With radiator  Vithout radiator  Litres  N/A  Thermostat operation range  With radiator  Litres  N/A  Thermostat operation range  Axailable options  Battery  Battery  Battery  Maintenance-free  Included		Governor type		ECU	
Engine power (gross)  Cooling system  Rotation  Rotation  Rotation  Fuel System  Fuel consumption at 110% prime power  Fuel consumption at 100% prime power  Fuel consumption at 75% prime power  Fuel consumption at 75% prime power  Fuel consumption at 50% prime power  Litres/hour  Air  Standard fuel tank capacity  Litres  Mounted air filter  P Type Pump - Common Rail  YES  Oil  System  Duplex fuel filter  P Total oil system capacity  Litres  Maximum sump capacity  Litres  N/A  We sump with filler and dipstick  Full-flow spin-on oil filters  YES  Cooling  System  With radiator  With radiator  Litres  N/A  Thermostat operation range  With radiator  Litres  N/A  Thermostat operation range  Maximum top tank temperature  Electric system  Battery  Battery  Battery  Available options  Engine water heater		Bore / stroke	mm	127 x 165	
Cooling system Rotation Rotation Fuel System Fuel consumption at 110% prime power Fuel consumption at 100% prime power Fuel consumption at 100% prime power Fuel consumption at 75% prime power Fuel consumption at 75% prime power Fuel consumption at 50% prime power Fuel consumption at 50% prime power Litres/hour Fuel c		Compression ratio		15:1	
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 filter type Dry Dry  Fuel and fuel system Duplex fuel filter  Oil System Maximum sump 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 With radiator Litres N/A  Thermostat operation range °C Up to 50°C  Maximum top tank temperature °C N/A  Electric System Battery Battery Maintenance-free  Available options  Battery charger Included  Included		Engine power (gross)	kW	Prime: 530   Standby: 580	
Fuel system Fuel consumption at 110% prime power System Fuel consumption at 100% prime power Fuel consumption at 75% prime power Fuel consumption at 55% prime power Fuel consumption at 55% prime power Fuel consumption at 50% prime power Fuel consumption at 50% prime power Fuel consumption at 50% prime power Litres/hour 64.7  Standard fuel tank capacity Litres 1120  Air System Air filter type Dry Fuel and fuel system PType Pump - Common Rail Fuel system Duplex fuel filter Fuel and fuel system Duplex fuel filter VES  Total oil system capacity Litres N/A We sump with filler and dipstick Full-flow spin-on oil filters YES  Cooling system  Total system capacity  With radiator Litres N/A  Thermostat operation range Maximum top tank temperature  Cooling to With a capacity Full-flow spin-on to filters Full-flow filter		Cooling system		Water cooled	
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 Air inlet Mounted air filter  System Air filter type Dry  Fuel and fuel system Duplex fuel filter  Oil System Maximum sump capacity Litres N/A  We sump with filler and dipstick YES  Full-flow spin-on oil filters YES  Cooling system • With radiator Litres N/A  Total system capacity Litres 101  • Without radiator Litres N/A  Thermostat operation range °C Up to 50°C  Maximum top tank temperature °C N/A  Electric system Battery Battery Maintenance-free  Available options  Fuel consumption at 100% prime power Litres/hour 95.4  Litres/hour 95.4  Litres 120  Litres N/A  Litres 101  • Without radiator Litres N/A  Thermostat operation range °C Up to 50°C  Maximum top tank temperature °C N/A  Electric system Battery Maintenance-free  Battery charger Included  Included		Rotation		Anti-clockwise viewed on flywheel	
Fuel consumption at 100% prime power  Fuel consumption at 75% prime power  Fuel consumption at 50% prime power  Fuel consumption at 50% prime power  Electric system  Fuel consumption at 50% prime power  Fuel consumption at 50% prime power  Electric system  Fuel and fuel tank capacity  Fuel and fuel system  Air filter type  Dry  Fuel and fuel system  P Type Pump - Common Rail  P Type Pump - Common Rail  YES  Total oil system capacity  Litres  Ats  We sump with filler and dipstick  Full-flow spin-on oil filters  YES  Cooling system  With radiator  With radiator  Litres  N/A  Thermostat operation range  Maximum top tank temperature  Electric system  Battery  Battery  Battery  Battery  Full-flow power  Litres/hour  64.7  Mounted air filter  Mounted air filter  PYES  TYES  Litres  Aysallable options	Fuel	Fuel consumption at 110% prime power	Litres/hour	140.7	
Fuel consumption at 50% prime power  Standard fuel tank capacity  Air  Air  Air inlet  Dry  Fuel and fuel system  Oil system  Oil system  Maximum sump capacity  Full-flow spin-on oil filters  Total system capacity  Fuel and dipstick  Fuel index of the sum of the sum of the system  Oil system  Oil system  Maximum sump capacity  Litres  A5  We sump with filler and dipstick  Full-flow spin-on oil filters  Total system capacity  Litres  Total system capacity  Litres  N/A  VES  Full-flow spin-on oil filters  Total system capacity  With radiator  Litres  N/A  Thermostat operation range  CC  Maximum top tank temperature  CC  N/A  Electric system  Battery  Battery  Maintenance-free  Included  Included		Fuel consumption at 100% prime power	Litres/hour	124.2	
Air Air Inlet Mounted air filter system Air filter type Dry  Fuel and fuel system Duplex fuel filter YES  Oil System Maximum sump capacity Litres N/A  We sump with filler and dipstick YES  Full-flow spin-on oil filters YES  Cooling System • With radiator Litres N/A  Thermostat operation range °C Up to 50°C  Maximum top tank temperature °C N/A  Electric System Battery Battery Included  Available options Engine water heater Included		Fuel consumption at 75% prime power	Litres/hour	95.4	
Air Air inlet Mounted air filter system Air filter type Dry  Fuel and fuel system Duplex fuel filter  Oil System Maximum sump capacity Litres A5  We sump with filler and dipstick YES  Full-flow spin-on oil filters YES  Cooling System • With radiator Litres N/A  Thermostat operation range °C Up to 50°C  Maximum top tank temperature °C N/A  Electric system Battery Maintenance-free  Available options  Available options  Air filter type Dry  Meounted air filter Mounted air filter Mounted air filter Mounted air filter Mounted air filter Dry  YES  Litres 45  N/A  YES  Total system capacity Litres 101  Litres N/A  Litres N/A  Up to 50°C  N/A  Electric System Battery Maintenance-free		Fuel consumption at 50% prime power	Litres/hour	64.7	
Fuel and fuel system  P Type Pump - Common Rail P Type Sump - Sump - Common Rail P Type Sump - Sump - Common Rail P Type Sump - Common - C		Standard fuel tank capacity	Litres	1120	
Fuel and fuel system  Duplex fuel filter  Duplex fuel filter  Total oil system capacity  Maximum sump capacity  Litres  Full-flow spin-on oil filters  Total system capacity  Full-flow spin-on oil filters  Total system capacity  With radiator  Without radiator  Litres  N/A  Thermostat operation range  Maximum top tank temperature  Electric system  Battery  Battery  Maintenance-free  Available options  P Type Pump - Common Rail  YES  Litres  N/A  YES  Litres  N/A  Litres  N/A  Litres  N/A  Litres  N/A  Up to 50°C  N/A  Battery  Maintenance-free	Air	Air inlet		Mounted air filter	
fuel system     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     • 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     Battery     Maintenance-free       Available options     Engine water heater     Included	system	Air filter type		Dry	
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  Total system capacity  • With radiator Litres N/A  Thermostat operation range °C Up to 50°C  Maximum top tank temperature °C N/A  Electric system Battery Maintenance-free  Available options  Total system capacity  • With radiator Litres N/A  Up to 50°C  Maximum top tank temperature °C N/A  Electrical system voltage VDC 12  Battery Maintenance-free	Fuel and	P Type Pump - Common Rail		YES	
Oil system	fuel system	Duplex fuel filter		YES	
Maximum sump capacity   Litres   N/A	Oil	Total oil system capacity	Litres	45	
Full-flow spin-on oil filters  Cooling system  • With radiator • Without radiator  • Without radiator  Thermostat operation range  Maximum top tank temperature  Electric system  Battery  Batte		Maximum sump capacity	Litres	N/A	
Cooling system  • With radiator • Without radiator • Without radiator • Without radiator • Up to 50°C  Maximum top tank temperature • C • N/A  Electric system  Battery  Batte		We sump with filler and dipstick		YES	
Cooling system  • With radiator  • Without radiator  • Without radiator  • Without radiator  • Up to 50°C   Maximum top tank temperature  ° Up to 50°C  Maximum top tank temperature  • CODE  • Why to 50°C  • Why to 50		Full-flow spin-on oil filters		YES	
System  • With radiator • Without radiator • Without radiator  Thermostat operation range  ° C  Maximum top tank temperature ° C  Maximum top tank temperature  ° C  N/A  Electric system  Battery  Batte	Cooling	Total system capacity			
Thermostat operation range  ©C  Maximum top tank temperature  ©C  N/A  Electric system  Battery  Battery  Battery  Battery charger  OC  N/A  12  Maintenance-free  Available options  Battery charger  Included  Included		With radiator	Litres	101	
Maximum top tank temperature  © N/A  Electric system  Battery  Battery  Battery charger  Available options  Electric system  Battery charger  Included  Included		Without radiator	Litres	N/A	
Electric system Battery Maintenance-free  Available options Engine water heater VDC 12  Battery Maintenance-free Included Included		Thermostat operation range	°C	Up to 50°C	
System Battery Maintenance-free  Available options Engine water heater Included		Maximum top tank temperature	°C	N/A	
System Battery Maintenance-free  Available options Battery charger Included  Engine water heater Included	Electric	Electrical system voltage	VDC	12	
Available options Engine water heater Included		Battery		Maintenance-free	
options Engine water heater Included	Available	Battery charger		Included	
Battery isolator switch Optional		Engine water heater		Included	
		Battery isolator switch		Optional	



# **ALTERNATOR**

Stamford HCI544E

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

# **DSE CONTROLLER SUMMARY**

Deepsea (DSE) Controller

Controller model / Deepsea DSE	DSE4520 (Optional)	<b>DSE6120</b> (Optional)	<b>DSE7320</b> Included	DSE8610 (Optional)
Controller photos		**************************************	* * * * * *	· · · · · · · · · · · · · · · · · · ·
Standard supply	0	0	•	0
Viewable parameters				
Phase voltage	X	3	3	3
Current	Instrumentation	•	•	•
Frequency	•	•	•	•
Active power	0	•	•	•
Reactive power	0	•	•	•
Apparent power	X	•	•	•
Power factor	0	•	•	•
Generator protection				
Abnormal voltage	•	•	•	•
Overcurrent warning	0	•	•	•
Overcurrent protection	•	•	•	•
Over frequency protection	•	•	•	•



# **DSE CONTROLLER SUMMARY**

Deepsea (DSE) Controller

Controller model / Deepsea DSE	<b>DSE4520</b> (Optional)	DSE6120 (Optional)	<b>DSE7310/20</b> (Optional)	DSE8610/20 (Optional)
Controller photos		* · · · · · · · · · · · · · · · · · · ·	* · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Engine figure				
Oil pressure	•	•	•	•
Coolant temperature	•	•	•	•
Fuel meter / fuel sensor	<b>•</b> / <b>o</b>	•/•	•/0	•/0
Speed	•	•	•	•
Battery voltage	•	•	•	•
Elapsed time	•	•	•	•
Engine protection				
Low oil pressure warning	X	•	•	•
Low oil pressure protection	•	•	•	•
High temperature warning	0	•	•	•
High temperature protection	•	•	•	•
Overspeed warning	X	•	•	•
Overspeed protection	0	•	•	•
Alternator charger	•	•	•	•
Functions				
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

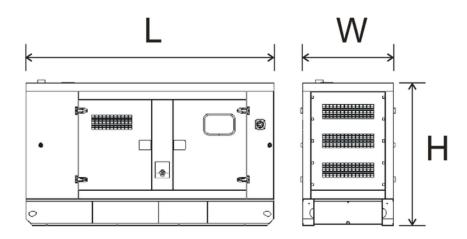
Improved sound insulation performance

Demounted parts for easier transportation and maintenance



# **OVERALL DIMENSIONS, WEIGHT & NOISE**

Frame type	Dimensions	Weight	Base tank @ 100% load		Noise level
	(L x W x H) mm	kg	Hours	Litres	dBA(A) at 7m @ 75% load
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.

# 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.