# VPC350UKS



### Canopied



ENGINE	ALTERNATOR	MODEL	POWER FACTOR	EMISSIONS	
Cummins 6LTAA9.5-G1	Stamford S4L1S-E4	VPC350UKS (Canopied)	Factor Φ = 0.8	N/A	
50Hz	1500rpm	3-Phase			

RATINGS	PRIME F	POWER	STANDE	BY POWER	RATED CURRENT	FUEL CONSUMPTION
Voltage	PF	RP	E	SP	Amps	@100% load
(V)	kWe	kVA	kWe	kVA	(A)	L/h
400	256	320	280	350	476	70

#### **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   Hz   50	Cummins 6LTAA9.5-G1		Units	
Number of cylinders / arrangement Displacement Displacement Displacement Litres 8,9L  Aspiration Combustion system Governor type Bore / stroke Bore / stroke Starter Motor / charge Alternator (V dc) Engine power (gross) Cooling system Fuel consumption at 100% prime power Spystem Fuel consumption at 100% prime power Fuel consumption at 100% prime power Fuel consumption at 50% prime power Litres/hour To Fuel consumption at 50% prime power Litres/hour System Air inlet System Fuel and fuel system Rotation Air filter type Coil system Fuel and Maximum sump capacity Litres Displacement Litres Mounted air filter YES  Cooling system Litres Displacement Litres N/A We sumy with filler and dipstick Spin-on oil filter Total system capacity Litres Litres N/A Litres Litres N/A Litres N/A Litres Litres N/A Litres N/A Litres N/A Litres Litres Litres N/A Litres Litres Litres N/A Litres Litres Litres Litres Litres Litres Litres Litres L	General	General Frequency		50
Displacement Litres 8.9L  Aspiration Turbocharged  Combustion system Direct injection  Governor type Electronic  Bor / stroke mm 116.5 X 148  Starter Motor / charge Alternator (V dc)  Engine power (gross) kWm Prime: 220   Standby: 350  Cooling system Water cooled  Rotation Anti-clockwise viewed on fillywheel  Fuel system Fuel consumption at 110% prime power Litres/hour 77  Fuel consumption at 50% prime power Litres/hour 35  12 hour fuel tank capacity Litres  Fuel and fuel system Air filter type Dry  Fuel and fuel system Rotary type pump Ecoplus fuel filter  Oil system Rotary type pump Fecolus fuel filter  Oil system Spin-on oil filter  Cooling system Total oil system capacity Litres N/A  We sump with filler and dipstick YES  Cooling system Viel and dipstick Litres N/A  Thermosta operation range Cooling system Air filter and dipstick Litres N/A  Electric system Battery Litres N/A  Air Maximum top tank temperature Cooling System Statery Air filler System Occonence of Cooling System Statery Air filter System Air filter Cooling System Statery Air filter System Occonence of Cooling System Occ	performance	Engine Speed	r/min	1500
Aspiration Combustion system Combustion system Combustion system Combustion system Covernor type Bor / stroke		Number of cylinders / arrangement		6 cyl / vertical in-line
Combustion system Governor type Governor type Governor type Bilectronic Bore / stroke		Displacement	Litres	8.9L
Governor type		Aspiration		Turbocharged
Bore / stroke Starter Motor / charge Alternator (V dc) 24 V DC  Engine power (gross) kWm Prime: 320   Standby: 350    Cooling system Water cooled  Rotation Motor of the prime power Water cooled  Fuel System Fuel consumption at 110% prime power Litres/hour 77  Fuel consumption at 75% prime power Litres/hour 70  Fuel consumption at 75% prime power Litres/hour 35  12 hour fuel tank capacity Litres 560  Air Air inlet Mounted air filter system Air filter type Dry  Fuel and fuel system Rotary type pump YES  Ecoplus fuel filter YES  Oil System Maximum sump capacity Litres 27.6  Maximum sump capacity Litres N/A  We sump with filler and dipstick YES  Spin-on oil filter YES  Cooling system • With radiator Litres N/A  Thermostat operation range °C Up to 40°C  Maximum top tank temperature °C N/A  Electric system Battery & Battery  Battery charger Included  Available options  Battery charger Included  Available options		Combustion system		Direct injection
Starter Motor / charge Alternator (V dc)  Engine power (gross)  Cooling system  Rotation  Rotation  Fuel System  Fuel consumption at 110% prime power  Fuel consumption at 100% prime power  Fuel consumption at 55% prime power  Litres/hour  Fuel consumption at 55% prime power  Litres/hour  Fuel consumption at 55% prime power  Litres/hour  S2.5  Fuel consumption at 55% prime power  Litres/hour  35  12 hour fuel tank capacity  Litres  Air filet  System  Air filet Mounted air filter  Puel and fuel system  Air filet pup  Electronically governed  Fuel and fuel system  Rotary type pump  Fuel and fuel system  Acapacity  Litres  Total oil system capacity  Litres  N/A  We sump with filler and dipstick  Spin-on oil filter  Cooling system  Without radiator  With radiator  Without radiator  Litres  N/A  Thermostat operation range  Company to the filter  PElectric System  Battery  Battery  Battery  Battery  Maintenance-free  Included  Available options  Battery isolator switch  Included		Governor type		Electronic
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 50% prime power  Litres/hour  Fuel consumption at 50% prime power  Litres/hour  Litres/hour  S2.5  Fuel consumption at 50% prime power  Litres/hour  Litres/hour  Litres/hour  35  12 hour fuel tank capacity  Litres  Mounted air filter  System  Air filter type  Electronically governed  Fuel and fuel system  Rotary type pump  Fuel and fuel system  And in the system capacity  Litres  Cooling System  Cooling System  Cooling System  Cooling System  Cooling System  Electric Adminum sump capacity  Litres  N/A  We sump with filler and dipstick  Spin-on oil filter  VES  Cooling System  Without radiator  Without radiator  Litres  N/A  Litres  N/A  Litres  N/A  Litres  Litres  N/A  Litres  N/A  Litres  N/A  Litres  Litres  N/A  Litres  Litres  N/A  Litres  Litres  N/A  Litres  Litres  Litres  N/A  Litres  Litres  Litres  N		Bore / stroke	mm	116.5 X 148
Cooling system   Rotation   Anti-clockwise viewed on flywheel		Starter Motor / charge Alternator (V dc)		24 V DC
Rotation   Anti-clockwise viewed on flywheel		Engine power (gross)	kWm	Prime: 320   Standby: 350
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  Litres/hour  Fuel consumption at 50% prime power  Litres/hour  35  12 hour fuel tank capacity  Litres  560  Air Air inlet  Mounted air filter  System  Air filter type  Dry  Fuel and fuel system  Rotary type pump  Eccopius fuel filter  Coil system  Maximum sump capacity  Litres  7.6  Maximum sump capacity  Litres  N/A  We sump with filler and dipstick  Spin-on oil filter  Cooling system  With radiator  With radiator  Without radiator  Litres  N/A  Litres  N/A  Litres  N/A  Litres  N/A  Litres  N/A  Electric system  Battery  Battery  Battery  Battery  Battery  Battery isolator switch  Included  Included  Included		Cooling system		Water cooled
Fuel 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 Litres/hour S2.5 Fuel consumption at 50% prime power Litres/hour S3  12 hour fuel tank capacity Litres S60  Air Air inlet Mounted air filter System Air filter type Dry  Fuel and fuel system Rotary type pump Ecoplus fuel filter Fuel and fuel system Fuel and fuel system Rotary type pump Litres Fuel and fuel system Ecoplus fuel filter Fuel and fuel system  Fuel and fuel system Cooling System  Naximum sump capacity Litres N/A  We sump with filler and dipstick Fuel Spin-on oil filter Fuel and F		Rotation		Anti-clockwise viewed on flywheel
Fuel consumption at 100% prime power  Fuel consumption at 75% prime power  Fuel consumption at 55% prime power  Fuel consumption at 50% prime power  Fuel consumption at 50% prime power  Ititres/hour  35  12 hour fuel tank capacity  Litres  560  Air  Air inlet  Mounted air filter  PYES  Fuel and fuel system  Rotary type pump  Ecoplus fuel filter  YES  Coll  System  Maximum sump capacity  Litres  Total oil system capacity  Litres  N/A  We sump with filler and dipstick  Spin-on oil filter  Cooling system  VES  Total system capacity  Litres  N/A  With radiator  Without radiator  Without radiator  Without radiator  Litres  N/A  Thermostat operation range  Connecting cables  Battery  Battery  Battery  Battery  Battery charger  Included  Included  Included	Fuel	Fuel consumption at 110% prime power	Litres/hour	77
Fuel consumption at 50% prime power  12 hour fuel tank capacity  Litres  560  Air Air inlet  Air inlet  Air filter type  Electronically governed  Fuel and fuel system  Rotary type pump  Ecoplus fuel filter  Oil system  Maximum sump capacity  Litres  Cooling system  Cooling system  Cooling system  Cooling system  Electric system  Electrical system capacity  Electric system  Electric system  Electrical system voltage  Available options  Eatery isolator switch  Electric system  Battery isolator switch  Litres  Litres  Litres  N/A  Litr		Fuel consumption at 100% prime power	Litres/hour	70
Air Air inlet Mounted air filter system Air inlet Dry  Fuel and fuel system Rotary type pump YES  Electronically governed YES  Ecoplus fuel filter YES  Total oil system capacity Litres 27.6  We sump with filler and dipstick YES  Spin-on oil filter YES  Cooling system • With radiator Litres N/A  With radiator Litres N/A  Thermostat operation range °C Up to 40°C  Maximum top tank temperature °C N/A  Electric system Connecting cables Battery isolator switch Included  Available options  Battery isolator switch  Litres N/A  Air liter Mounted air filter  Dry  Electronically governed  YES  27.6  Litres N/A  Litres N/A  Litres N/A  Litres N/A  Vith radiator Litres N/A  Fleetrical system voltage °C Up to 40°C  Maximum top tank temperature °C N/A  Electric system  Connecting cables Included  Battery isolator switch Included		Fuel consumption at 75% prime power	Litres/hour	52.5
Air Air inlet Mounted air filter system  Air filter type  Fuel and fuel system  Rotary type pump  Ecoplus fuel filter  Oil system  Maximum sump capacity  We sump with filler and dipstick  Spin-on oil filter  Cooling system  • With radiator • With radiator • Without radiator  Thermostat operation range  Maximum top tank temperature  Electric system  Available options  Battery charger  Battery charger  Battery isolator switch  Battery isolator switch  Battery isolator switch  Dry  Mounted air filter  Mounted air filter  Mounted air filter  Dry  YES  Dry  Litres  N/A  Litres  N/A  Litres  N/A  Litres  N/A  Litres  N/A  Puel to 40°C  N/A  Alaintenance-free  Included  Included		Fuel consumption at 50% prime power	Litres/hour	35
Fuel and fuel system  Rotary type pump  Ecoplus fuel filter  Oil system  Maximum sump capacity  Litres  Spin-on oil filter  Cooling system  - Without radiator  Without radiator  Thermostat operation range  Maximum top tank temperature  Electric system  Battery  Available options  Electroically governed  YES  Pres  YES  27.6  Spin-On Oil filter  Litres  N/A  YES  N/A  Litres  N/A  Litres  N/A  Litres  N/A  Up to 40°C  N/A  Alientenance-free  Included  Included  Included		12 hour fuel tank capacity	Litres	560
Fuel and fuel system  Rotary type pump  Ecoplus fuel filter  Total oil system capacity  We sump with filler and dipstick  Spin-on oil filter  Cooling system  - With radiator  - Without radiator  - Without radiator  Thermostat operation range  Maximum top tank temperature  Electric system  Battery  Battery  Battery charger  Battery isolator switch  PYES  27.6  27.6  10.4  27.6  10.4  10.4  10.4  10.4  10.4  10.4  10.4  10.5	Air	Air inlet		Mounted air filter
Fuel and fuel system  Rotary type pump  Ecoplus fuel filter  Total oil system capacity  Maximum sump capacity  Litres  N/A  We sump with filler and dipstick  Spin-on oil filter  Total system capacity  We sump with filler and dipstick  Spin-on oil filter  Total system capacity  With radiator  With radiator  With radiator  Litres  N/A  Thermostat operation range  C Up to 40°C  Maximum top tank temperature  C N/A  Electric system  Battery  Battery  Maintenance-free  Connecting cables  Included  Available options  Battery isolator switch	system	Air filter type		Dry
Fuel system  Rotary type pump  Ecoplus fuel filter  Total oil system capacity  Maximum sump capacity  We sump with filler and dipstick  Spin-on oil filter  Total system capacity  Total system capacity  We sump with filler and dipstick  YES  Spin-on oil filter  Total system capacity  With radiator  With radiator  With radiator  Litres  N/A  Thermostat operation range  Maximum top tank temperature  Comment of the system	Fuel and	Electronically governed		YES
Oil system    Maximum sump capacity    We sump with filler and dipstick    Spin-on oil filter    Total system capacity    With radiator    Without radiator    Without radiator    Thermostat operation range    Maximum top tank temperature    Electric system    Battery    Connecting cables    Battery charger    Battery isolator switch    Litres    N/A    Litres    N/A    Up to 40°C    N/A    Electric    System    Available options    Battery isolator switch    Litres    N/A    Li		Rotary type pump		YES
Maximum sump capacity   Litres   N/A		Ecoplus fuel filter		YES
Maximum sump capacity   Litres   N/A	Oil	Total oil system capacity	Litres	27.6
Spin-on oil filter  Cooling system  • With radiator • Without radiator • Without radiator • Without range • °C • Up to 40°C • Maximum top tank temperature • °C • N/A  Electric system • Battery • Battery • Maintenance-free  Connecting cables • Included • Battery isolator switch		Maximum sump capacity	Litres	N/A
Cooling system  • With radiator • Without radiator • Without radiator • Without radiator • Up to 40°C  Maximum top tank temperature • C  Maximum top tank temperature  • C  Maintenance-free  Connecting cables  Battery  Battery  Battery  Battery  Battery  Available options  Battery isolator switch		We sump with filler and dipstick		YES
Cooling system  • With radiator  • Without radiator  • C Up to 40°C  Maximum top tank temperature  ° C N/A  Electric system  • Battery  • C Maintenance-free  Connecting cables  • Connecting cables  Battery charger  • Included  Included		Spin-on oil filter		YES
System  • With radiator • Without radiator • Without radiator • Without radiator • Without radiator • Up to 40°C	Cooling	Total system capacity		
Thermostat operation range °C Up to 40°C  Maximum top tank temperature °C N/A  Electric system Battery V 24  Battery Maintenance-free  Connecting cables Included  Available options Battery isolator switch Included		With radiator	Litres	N/A
Maximum top tank temperature  C N/A  Electric system  Battery  Connecting cables  Available options  Maximum top tank temperature  C N/A  Electric system voltage  V 24  Maintenance-free  Included  Included  Included		Without radiator	Litres	N/A
Electric system  Battery  Connecting cables  Available options  Electrical system voltage  Battery  V  24  Maintenance-free  Included  Included  Included		Thermostat operation range	°C	Up to 40°C
Electric system  Battery  Connecting cables  Battery charger  Options  Battery isolator switch  Maintenance-free  Included  Included		Maximum top tank temperature	°C	N/A
System Battery Connecting cables Included  Available options Battery isolator switch Maintenance-free Included Included Included	Electric .	Electrical system voltage	V	24
Connecting cables Included  Available options Battery isolator switch Included		Battery		Maintenance-free
Available options Battery isolator switch Included		Connecting cables		Included
options Battery isolator switch Included	Aveilable	Battery charger		Included
		Battery isolator switch		Included
		Engine water heater		Included



## **ALTERNATOR**

Stamford S4L1S-E4

		Units	
General	Manufacturer / brand		Stamford
data	Model		S4L1S-E4
	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		Shunt
	Altitude	m	≤1000
	Overspeed	min -1	2250

## **DSE CONTROLLER SUMMARY**

Deepsea (DSE) Controller

Controller model / Deepsea DSE	<b>DSE4520</b> (Optional)	DSE6120 (Optional)	DSE7310/20 (Optional)	DSE8610/20 (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	•	•	•
Electric energy metering	X	•	•	•
Generator protection				
Abnormal voltage	•	•	•	•
Overcurrent warning	0	•	•	•
Overcurrent protection	•	•	•	•
Over frequency protection	•	•	•	•
Short circuit protection	MCCB / ●	MCCB / ●	MCCB / ●	MCCB / ●



# **DSE CONTROLLER SUMMARY**

Deepsea (DSE) Controller

Controller model / Deepsea DSE	DSE4520 (Optional)	DSE6120 (Optional)	<b>DSE7310/20</b> (Optional)	DSE8610/20 (Optional)
Controller photos		* * * *	* * * * *	*******
Engine figure				
Oil pressure	•	•	•	•
Water temperature	•	•	•	•
Fuel meter / fuel sensor	● / ○	•/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	•	•	•	•
Expand module	X	0	0	0
Communication function	X	X	RS232 / 484	RS232 / 485
Communication port	USB	USB	RS232 / 484	RS232 / 485
CAN	•	0	•	•
Service indicate	0	0	•	•
Fault history	•	•	•	•
Gen-gen synchronising	X	X	X	•
Gen-mains synchronising (20)	X	X	X	•

**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

Unique appearance with high sound absorbing and thermal properties

8-12 hours built-in fuel tank integrated into the skid-mounted base

Excellent design and craftmanship

Full weatherproof enclosure, suitable for operations in harsh conditions

Thermo-acoustic installation which can withstand fire, high temperature and severe conditions

Residential exhaust muffler manufactured from galvanised steel

High quality polyester powder paint

Designed on modular principles with interchangeable components permitting on-site repairs

#### Easy commissioning and maintenance

Control panel viewing window with lockable access door for quick, safe and easy monitoring

Side doors allowing 180° opening for easy accessibility

Lifting point for easy mobility

Lube oil drain and radiator drain

Internally mounted exhaust silences constructed to withstand rough conditions

#### Security & safety

Earth leakage protection

Secure and lockable access doors for fuel fill and battery

Fully guarded cooling fan and battery charging alternator

Emergency stop push button mounted on the enclosure exterior for urgent and safe shutdown

Efficient management of cooling air to avoid high water temperature

#### Transportability

Top access lifting points for crane lifting

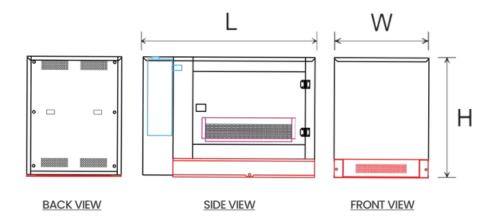
Fork lift pockets for easy moveability





## **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
Canopied	3500 x 1220 x 2100	TBC	8	450	70.5
Open					



## **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: One (1) year or 1000 hours (whichever occurs first) from date of shipment from the factory or registered start-up date.