VPC220UKS



Canopied



ENGINE	ALTERNATOR	MODEL	POWER FACTOR	EMISSIONS
Cummins 6CTAA8.3-G2	Stamford UCI 274H	VPC220UKS (Canopied)	Factor Φ = 0.8	N/A
50Hz	1500rpm	3-Phase		

RATINGS	PRIME PO	OWER	STANDB	Y POWER	RATED CURRENT	FUEL CONSUMPTION
(V) 400	kWe	kVA 200	kWe 176	kVA 220	(A) 289	@100% load L/h 49

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

Cummins 6CTAA8.3-G2		Units	
General	Frequency	Hz	50
performance	Engine Speed	r/min	1500
	Number of cylinders / arrangement		6 cyl / vertical in-line
	Displacement	Litres	8L
	Aspiration		Turbocharged
	Combustion system		Direct injection
	Governor type		Electronic
	Bore / stroke	mm	114 x 135
	Starter Motor / charge Alternator (V dc)		24 v DC
	Engine power (gross)	kWm	Prime: 183 Standby: 203
	Cooling system		Water cooled
	Rotation		Anti-clockwise viewed on flywheel
Fuel	Fuel consumption at 110% prime power	Litres/hour	53.9
system	Fuel consumption at 100% prime power	Litres/hour	49
	Fuel consumption at 75% prime power	Litres/hour	36.7
	Fuel consumption at 50% prime power	Litres/hour	24.5
	12 hour fuel tank capacity	Litres	580
Air	Air inlet		Mounted air filter
system	Air filter type		Dry
Fuel and	Electronically governed		YES
fuel system	Rotary type pump		YES
	Ecoplus fuel filter		YES
Oil	Total oil system capacity	Litres	23.8
system	Maximum sump capacity	Litres	N/A
	We sump with filler and dipstick		YES
	Spin-on oil filter		YES
Cooling	Total system capacity		
system	With radiator	Litres	N/A
	Without radiator	Litres	N/A
	Thermostat operation range	°C	Up to 40°C
	Maximum top tank temperature	°C	N/A
Florida	Electrical system voltage	V	24
Electric system	Battery		Maintenance-free
	Connecting cables		Included
A ! . ! . !	Battery charger		Included
Available options	Battery isolator switch		Included
options	125 AMP 5 Pin (IP67) Socket Outlet		Included



ALTERNATOR

Stamford UCI 274F

		Units	
General	Manufacturer / brand		Stamford
data	Model		UCI 274H
	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	DSE4520 (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		•	•	•
Overcurrent protection	•	•	•	•
Over frequency protection	•	•	•	•
Short circuit protection	MCCB / ●	MCCB / ●	MCCB / ●	MCCB / ●



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Deepsea (DSE) Controller

Controller model / Deepsea DSE	DSE4520 (Optional)	DSE6120 (Optional)	DSE7310/20 (Optional)	DSE8610/20 (Optional)
Controller photos		* * * * *	*	***************************************
Engine figure				
Oil pressure	•	•	•	•
Water temperature	•	•	•	•
Fuel meter / fuel sensor	• / o	•/0	•/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)	Χ	X	Χ	•

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

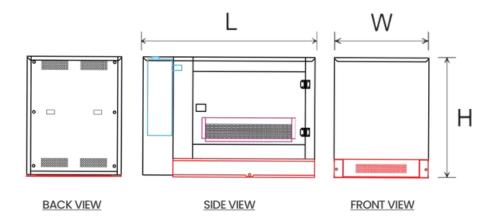
Fork lift pockets for easy moveability





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	3400 x 1315 x 1950	TBC	8	400	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.