VPC88UKS



Canopied



ENGINE	ALTERNATOR	MODEL	POWER FACTOR	EMISSIONS
Cummins 4BTA3.9-G11	Stamford UC1224-G	VPC88UKS (Canopied)	Factor Φ = 0.8	N/A
50Hz	1500rpm	3-Phase		

RATINGS	PRIME PO	OWER	STANDE	SY POWER	RATED CURRENT	FUEL CONSUMPTION
Voltage ———	PRP		E	SP	Amps	@100% load
(V)	kWe	kVA	kWe	kVA	(A)	L/h
400	64	80	72	88	86	20

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.

VPC88UKS Canopied

ENGINE

Cummins 4BTA	3.9-G11	Units	
General	Frequency	Hz	50
performance	Engine Speed	r/min	1500
	Number of cylinders / arrangement		4 cyl / vertical in-line
	Displacement	Litres	3.9L
	Aspiration		Turbocharged
	Combustion system		Direct injection
	Governor type		Electronic
	Bore / stroke	mm	102 x 120
	Starter Motor / charge Alternator (V dc)		24 v DC
	Engine power (gross)	kWm	Prime: 70 Standby: 80
	Cooling system		Water cooled
	Rotation		Anti-clockwise viewed on flywhee
Fuel	Fuel consumption at 110% prime power	Litres/hour	22
system	Fuel consumption at 100% prime power	Litres/hour	20
	Fuel consumption at 75% prime power	Litres/hour	15
	Fuel consumption at 50% prime power	Litres/hour	10
	12 hour fuel tank capacity	Litres	160
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	16.4
system	Maximum sump capacity	Litres	N/A
	We sump with filler and dipstick		YES
	Spin-on oil filter		YES
	Total system capacity		
Cooling 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
	Electrical system voltage	V	24
Electric system	Battery		Maintenance-free
- system	Connecting cables		Included
	Battery charger		Included
Available	Battery isolator switch		Included
options	, , , , , , , , , , , , , , , , , , , ,		



ALTERNATOR

Stamford UCI224G

		Units	
General	Manufacturer / brand		Stamford
data	Model		UCI224G
	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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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	Х	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

Extremely rugged and highly corrosion resistant construction

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

Extremely rugged and highly corrosion resistant construction

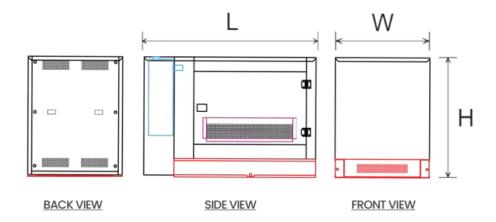
Top access lifting points for crane lifting

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	2500 x 970 x 1400	TBC	8	160	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.