



DESIGN SPECIFICATIONS

High quality, reliable and complete power unit.
 Compact design
 Easy start and maintenance.
 Every generating set is subject to a comprehensive test Programme which includes full load testing and checking and providing all control and safety shut down functions testing.
 Fully engineered with a wide range of options and accessories, Canopy, soundproof canopy and on road trailer.



400 / 230 V - 50Hz			ADR 17	ADR 22	ADR 28	ADR 33	ADR 43	ADR 68
Power Factor 0.8	Standby	kVA	16.5	22	27.5	33	43	68
	Prime	kVA	15	20	25	30	40	62

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings.

Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

ENGINE

CUMMINS X and S series. 1500 rpm, diesel engines.
 Four stroke, water cooled, direct injection fuel system.
 Mechanical governor control system.
 Dual fuel filter.
 Full flow lub oil filter.
 Changeable cylinder liners.
 Dry type air cleaner.
 12 Volt D.C. starter and charge alternator.
 Cooling radiator.
 Flexible fuel connection hoses.
 Industrial capacity exhaust silencer.
 Starter battery (with lead acid).
 Jacket water heater (automatic models).
 Operation manuals and circuit diagram documents.

ALTERNATOR

Stamford Alternator from Newage
 Screen protected and drip - proof, brushless type, revolving field, self- exciting, 4 poles, IP23, Enclosure, single bearing system, self regulated through an automatic voltage regulator.

CHASSIS

The complete generating set is mounted as whole on a heavy - duty fabricated, steel base frame. Antivibration pads are fixed between the engine / alternator feet and the base frame.
 Base Frame design incorporates FRP fuel tank.

CANOPY

Easy maintenance and operation are supplied by design.
 All metal canopy parts are painted by electrostatic powder paint.
 Emergency stop button is outside of canopy.

QUALITY STANDARDS

The equipment meets the following standards: ISO 3046, VDE 0530, BS 4999, BS 5000, IEC 34-1. The generating set is manufactured by a full accredited ISO 9001 NQA

CONTROL SYSTEMS

Deep Sea Control, Supervision and Protection Panel Mounted on genset base frame. The control panel is equipped as follows;

Auto Mains Failure Control Panel

Control panel requirements.
 Control with PCC 300 module.
 Multi function meter
 Emergency stop-push button.

Generating Set Control Module PCC 300 Features

Generating set, monitoring control.
 Micro - processor based design.
 Generator set, manual and remote Start / Stop.
 Shutdown fault indication and hours run meter (LCD)
 Key switch operation and Start push button.

Protections and Indications:

High engine temperature, shutdown.
 Low oil pressure, shutdown.
 Overspeed
 Fail to start.
 Charge fail

Multi function meter

Generator phase Voltages (V)
 Generator phase current (A)
 Generator phase Frequency (Hz)
 Engine Water temperature (°C).
 Engine lube oil pressure (kg. / cm²)

MCCB of suitable Rating with Overload and Short Circuit.



DSE 720

MODEL		ADR 17	ADR 22	ADR 28	ADR 33	ADR 43	ADR 68	
Power Pf. 0.8	Standby	kVA	16.5	22	27.5	33	43	68
		Kw	13	17.6	22	26	35	54.5
	Prime	Kva	15	20	25	30	40	62
		Kw	12	16	20	24	32	50
Engine Make		Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	
Model		X1.7 G1	X2.5 G1	X2.5 G2	S3.8 G2	S3.8 G4	S3.8 G7	
Gross Engine Power Output (at rated rpm)		kWm	14.9	18.6	23.8	27	38	56
		hp	20	25	32	36	52	76
Aspiration and Cooling		Natural	Natural	Natural	Natural	Turbocharged	Turbocharged & Chargecooled	
Cubic Capacity		Litre	1.7	2.5	2.5	3.8	3.8	
Cylinders and Build		2 - In line	3 - In Line	3 - In Line	4 - In Line	4 - In Line	4 - In Line	
Engine Rated Speed		rpm	1500	1500	1500	1500	1500	
Compression Ratio			18.5:1	18.5:1	18.5:1	17.5:1	17.5:1	
Bore and Stroke		mm x mm	91.4 x 127	91.4 x 127	91.4 x 127	97 x 128	97 x 128	
Governor Type			Mechanical "A2"	Mechanical "A2"	Mechanical "A2"	Mechanical "A2"	Mechanical "A2"	
Fuel Consumption		Load	75% Load	75% Load	75% Load	75% Load	75% Load	
		L/h.	2.8	3.5	4.5	5.6	7.5	10.3
Tank Size		Litre	45	45	45	100	100	
Engine Oil Capacity		Litre	5	6.5	6.5	9	9	
Engine Water Capacity		Litre	6	7.5	7.5	11	11	
Exhaust Pipe Diameter		mm.	50	50	50	75	75	
Make (brand)			Stamford	Stamford	Stamford	Stamford	Stamford	
No. Phases			3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	
Class of Insulation			H	H	H	H	H	
Alternator Voltage regulation			Plus / Minus %1.5	Plus / Minus %1.5	Plus / Minus %1.5	Plus / Minus %1.5	Plus / Minus %1.5	

OPEN TYPE

Dimensions L x W x H	1.2 x 0.73 x 1.21	1.4 x 0.73 x 1.21	1.4 x 0.73 x 1.21	1.8 x 0.76 x 1.26	1.8 x 0.76 x 1.23	1.8 x 0.76 x 1.32
Dry Weight Kg	410	490	490	700	750	800

CANOPIED

	ASG 1	ASG 2				
Dimensions L x W x H	1850 x 900 x 1630	2150 x 970 x 1730				
Dry Weight Kg	720	755	790	1165	1215	1265



Accessories

- Bulk Fuel Tank
- Automatic Fuel Filling Systems
- Fuel Water Separator
- Low Fuel Alarm
- Residential Silencer
- Trailer
- Tool-Kit for maintenance

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