



ACCURATE POWER INDUSTRIAL GENERAL TRADING LLC

CM-455

3 PHASE OUTPUTS			
GENERATOR SET MODEL	RATING	50HZ	
		400-230 V, 1500 rpm	
CM-455	PRIME	KVA	KW
	STAND-BY	455	364



ALTERNATOR DATA	
Make	LEROY SOMER
Model	TAL047C
No. of bearings	1
Insulation Class	H
Total Harmonic Content	<3.5 %
Wires / Poles	12 / 4
Ingress Protection	IP23
Excitation System	Self-Excited
Winding Pitch	2/3 (n° 6S)
AVR Model	
Overspeed	2250 mn ⁻¹
Voltage Regulation	±0.5%

POWERED BY: **Power Generation** **STAMFORD**

* Ratings at 0.8 pf - Generator designed to operate in ambient temperatures up to 55 °C
 * Generating Set photo is for reference only.

ENGINE / TECHNICAL DATA		
Engine Make	Cummins - UK	
Engine Model	QSZ13G5	
Governing Type	Electronic	
Cylinder Arrangement	In-line	
Number of Cylinders	6	
Bore and Stroke (mm)	130 x 163	
Displacement Litre	13	
Induction System	Turbocharged	
Cycle	4 stroke	
Fuel System	Cummins PT Pump, Direct Injection	
Air Cleaner Type	Dry replaceable element	
Rotation	Anti-clockwise (viewed from flywheel end)	
Cooling System	Water-cooled	
Frequency and Engine Speed	50Hz & 1500rpm	
	Prime	Standby
Gross Engine Power kW	360	400
FUEL CONSUMPTION (L/hr):		
50%	49	-
75%	70	-
100%	93	107
Total Lubrication System Capacity [liters]	78	78
Total Coolant Capacity (jacket water/secondary water) [ltrs]	62.0	62.0
Coolant Ratio	50:50	50:50
Fan Power (kWm)	18.1	18.1
Limiting Ambient Temperature (°C)	50	50
Cooling System Air Flow (m3/s)	8.1	8.1
Fuel Tank Capacity	TBD	TBD

CONTROL PANEL	
Make	Deepsea
<p>Deepsea is an Auto Mains (Utility) Failure Control Module. It is operated via the START, STOP, AUTO, and MANUAL soft touch membrane buttons on the front panel. DSE7320 can be controlled remotely using either GDM Modem, Ethernet via DSE860/865 or via RS485.</p> <p>PROTECTION:</p> <ul style="list-style-type: none"> -Fail to start -Low oil pressure -High engine temperature -U/O Voltage shutdown -U/O Frequency shutdown -Under speed, Overspeed -Loss of speed engine detection -High/Low battery voltage -kW overload -Unbalanced load -Low fuel alarm (if fitted) -Battery charger failure (if fitted) 	

Dimension and Weight		
DIMENSION	OPEN	SILENT
Length (L)	3700 mm	5190 mm
Width (W)	1150 mm	1630 mm
Height (H)	2100 mm	2190 mm
Net Weight	3777 kg	4610 kg

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www.accuratepower-group.com



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RATING DEFINITIONS:

Prime Power - These ratings are applicable for supplying continuous power (at variable load) in lieu of commercially purchased power. 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 Power - These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these rating. When used at standby Rating the alternator will be peak continuous rated (according to ISO3046)

STANDARD SPECIFICATIONS

1. ENGINE

Cummins heavy duty diesel engine.

1.1 GOVERNOR

Electronic

2. COOLING RADIATOR

Radiator and cooling fan complete with protection guards, designed to cool the engine in ambient temperatures up to 55° C. The radiator is mounted on the base frame to avoid vibrations coming from the engine.

3. FILTRATION SYSTEM

Cartridge type air filter with security element. Cartridge fuel filter and full lube oil filter. All filters have replaceable elements.

4. EXHAUST SYSTEM

Heavy-duty industrial silencer.

5. ELECTRICAL SYSTEM

24 Volts system with battery charging alternator, Starter motor, High capacity maintenance free lead acid battery, battery rack mounted on the generating set base frame, and heavy duty interconnecting cables with terminations.

6. ALTERNATOR

Screen protected and drip-proof, self-exciting, self-regulating brush-less alternator. Four poles, STAR winding connection, suitable for tropical, humid and saline climates. H class insulation.

7. AUTOMATIC VOLTAGE REGULATOR (AVR)

Static electronic design voltage regulator. Steady voltage precision within + 1 % from no load to full load including cold and hot variations, at any Power factor between 0.8 and unity.

8. MOTOR STARTING

An overload capacity equivalent to between 160% to 300% (depending on alternator frame size) of full load impedance at zero power factor can be sustained for 10 seconds.

9. MOUNTING ARRANGEMENT

9.1 BASE FRAME

The complete generating set is mounted on heavy duty steel fabricated base frame which is anti rust coated.

9.2 COUPLING

Engine and alternator are directly coupled by means of SAE flange. The engine fly wheel is flexibly coupled to the alternator rotor.

9.3 ANTI VIBRATION MOUNTING PADS

Anti vibration pads are fitted between engine-alternator base frame ensuring complete vibration isolation of rotating assemblies.

10. FUEL SYSTEM

On Generating Sets up to 700 KVA, the baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

11. DOCUMENTATION

A full set of operation and maintenance manual are provided.

12. FACTORY TESTS

Generating set is subject to a strict load test before delivery. A test certificate can be provided as optional.

13. QUALITY STANDARDS

Generating set meets the following standards ISO 8528, IEC 34.1, CEI 2.3, VDE 0530, BS 4999-5000, NF51-100. Cummins is fully accredited ISO 9001 company.

14. WARRANTY

Generating set is guaranteed for a period of 12 months from date of commissioning or 18 months from date of shipment which ever occurs earlier. (check warranty statement for more details, as it may vary for different countries)

In line with our policy of continuous product development, we reserve right to change specification without notice

AVAILABLE OPTIONS & ACCESSORIES

We offer a range of optional features and accessories to tailor our generating sets to meet your needs.

OPTIONS

- Generator Set control and synchronizing panels
- Additional Protection alarms and shutdowns
- Water fuel separator
- Water jacket heater
- Battery charger

Distributed and Serviced by:



ACCURATE POWER INDUSTRIAL GENERAL TRADING LLC

ACCESSORIES

- Genuine spare parts
- Fuel Tanks
- Manual and Automatic Transfer Switches

STANDARD REFERENCE CONDITIONS

De-rating may apply, please consult Acpower for specific site ratings. Some of the specifications are not standard on all Genset Models

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