



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA, Cummins, QSG12-G3, 370 KVA

1500 rpm (50 Hz Ratings)

Gross engine output			Net engine output			Typical generator set output					
Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
369/495	332/445	299/401	350/469	317/425	284/381	327	409	296	370	265	332

1800 rpm (60 Hz Ratings)

Gross engine output			Net engine output			Typical generator set output					
Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
414/555	378/507	340/456	393/527	362/485	324/434	370	462	340	425	304	380

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	369	495	82	21.5
Prime Power				
100	332	445	72	19
75	249	334	54	14.2
50	166	223	37	19.7
25	83	111	20	5.2
Continuous Power				
100	299	401	64	17

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	414	555	93	24.6
Prime Power				
100	378	507	85	22.3
75	284	380	62	16.4
50	189	254	43	11.3
25	95	127	24	6.2
Continuous Power				
100	340	456	75	19.8

General Engine Data	
Fuel Rating	FR21317
Type	4 cycle, in-line, turbocharged, air-cooled
Bore mm	132 mm (5.20 in.)
Stroke mm	144 mm (5.67 in.)
Displacement litre	11.8 litre (720 in. ³)
Cylinder block	Cast iron, 6 cylinder
Battery charging alternator	110 amps
Starting voltage	24-volt
Fuel system	Cummins HPCR
Fuel filter	Spin-on fuel filters with water separator
Lube oil filter type(s)	Spin-on full flow filter
Lube oil capacity (l)	34.1
Flywheel dimensions	SAE 1

Coolpac Performance Data	
Cooling system design	Air-air charge cooled
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	48.0
Limiting ambient temp.** (°C)	55
Fan power (kWm)	24.3
Cooling system air flow (m ³ /s)**	8.4
Air cleaner type	Normal duty dry replaceable element with restriction indicator

Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
Open	3400	1200	1700	670	3180
Closed	4420	1600	2260	670	4480

UAE, Sharjah Airport, Saif Zone Warehouse 2 , Street 14

Mobile: +971502296962

E-mail: Info@ataswg.com

Website: www.ataswg.com



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Features

Fuel System - Bosch P7100 type mechanical fuel injection pump have high injection pressure - optimize engine performance and establish an unrivalled reputation for reliability.

Electronic Governor Control Unit - Strengthening electronic governor control unit can optimize engine speed stability and reliability.

Holset HE400 and HE500 Non Wastegate Turbocharger - Increased power, fuel economy, and lower smoke and noise levels.

Electronic Fuel Shot Off Valve - Increased safety for mechanical fuel system engine.

Integrated Block Design - Integrated fluid circuits replace hoses and eliminate potential leaks.

24-Valve Cylinder Head – Four valves per cylinder for increased power with faster response and fuel economy.

Coolpac Integrated Design - Products are supplied complete with cooling package and air cleaner kit for a complete power package. Each component has been specifically developed and rigorously tested for G-Drive products, ensuring high performance, durability and reliability.

Service and Support - G-Drive products are backed by an uncompromising level of technical support and after sales service, delivered through a world class service network.

Ratings Definitions

Emergency Standby Power (ESP): Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source.

Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP): Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base Load (Continuous) Power (COP): Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

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ALTERNATOR SPECIFICATIONS

TAL046 - 230 to 365 kVA - 50 Hz / 288 to 438 kVA - 60 Hz

Insulation class	H	Excitation system 6-wire	SHUNT AREP+ / PMG
Winding pitch	2/3 (wind.6S - 6-wire / wind.6 - 12-wire)	AVR type	R150 R180
Number of wires	6 (12 option)	Excitation system 12-wire (option)	SHUNT AREP+ / PMG
Protection	IP 23	AVR type	R150 R180
Altitude	≤ 1000 m	Voltage regulation (**)	± 0.8 % ± 0.5 %
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (***) in no-load < 2.5 %	
Air flow 50 Hz	0.48 m ³ /s	Total Harmonic Distortion THD (***) in linear load < 5 %	
Air flow 60 Hz	0.58 m ³ /s	Waveform: NEMA = TIF (***)	< 50
AREP+/PMG Short-circuit current = 2.7 In: 5 seconds (*)		Waveform: I.E.C. = THF (***)	< 2%

Control Panel

DSE7320 MKII	
Auto Mains (Utility) Failure Control Module	
The DSE7320 MKII is a powerful, new generation Auto Mains (Utility) Failure genset control module with a highly sophisticated level of new features and functions, presented in the usual DSE user-friendly format. Suitable for a wide variety of single, diesel or gas Gen-set applications.	
OVERALL SIZE	
245 mm x 184 mm x 51 mm (9.6" x 7.2" x 2.0")	
PANEL CUTOUT SIZE	
220 mm x 160 mm (8.7" x 6.3")	
MAXIMUM PANEL THICKNESS	
8.0 mm (0.3")	
PRODUCT VARIANTS	
7320-03 - 7320 MKII Auto Mains (Utility) Failure Control Module	



Optional configurations:

Engine accessories:

- Heavy-duty air filter
- Coolant heater
- Lubricant oil heater
- Fuel and Water Separator
- Lube oil rotary pump

Alternator And Accessories:

- Leroy somer/stamford
- Anti condensation heater
- PMG + AVR ◊ Double bearing alternator High voltage _____ kV
- RTDs for Bearing and winding

Cooling System:

- 55 degree Radiator
- Remote Radiator

Control System:

- AMF
- Parallel
- Practical type in low temperature environment
- Control Screen Heater
- Remote Annunciators
- Other (ComP, DEIF)

Circuit Breaker:

- 3/4 poles
- Fixed/handcart type
- Electric mechanism

Automatic Transfer Switch (ATS):

- ATS cabinet
- Contractor type ATS
- Motorized changeover type ATS

Start Battery:

- Nickel-cadmium battery
- Maintenance-free battery
- Battery charger and selector switch
- Charging current meter

External Fuel Tank:

- Single /double wall fuel tank (500-5000 L)
- Fuel Transfer pump

Exhaust Muffler:

- Residential grade
- Critical grade
- Hospital grade

Available for voltages :

- 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V

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Prime Rating:

Unlimited hours usage, with an average load factor of 80% over each 24 hours period. 10% overload is available for 1 hour in every 12 hours operation. 0 overload is permitted on standby power.

Standby Rating:

Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hours period. Up to 300 hours of annual usage may be run continuously. No over-load is permitted on standby power.

Engine:

Cummins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

Warranty policy:

ATA products have a warranty for 12 months or 1000 hours whichever occurs first against any manufacturing defects

Wearing parts (filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

Radiator:

50°C, fan protective shroud

Fuel Tank:

Capacity of fuel tank is for 8– 10 hours running
Built in fuel tank up to 800 kVA

Circuit Breaker:

3 pole LS MCCB

Alternator Type:

brushless AC alternator

Control system alarms:

Over and Under Speed
Low and High Battery Volt. Start and Stop Failure Over Current Under / Over Generator Voltage
Low Oil Pressure
Emergency stop High engine temperature



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice. All photos are representative and may not reflect exact mode.

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