

Makes Life Brighter

Generators & Switchgear Solutions

ATA, Cummins, QSG12-G4, 416 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	
409/549	371/498	334/448	390/523	356/477	319/428	364	455	333	416	298	372

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
466/625	424/569	382/512	445/597	408/547	366/491	418	523	383	479	344	429

Fuel Consumption 1500 (50 Hz)

%	kWm	ВНР	L/hr	US Gal./hr				
	Standby Power							
100	409	549	92	24.2				
	Prime Power							
100	371	498	82	21.5				
75	279	374	60	15.9				
50	186	249	41	10.8				
25	93	125	22	5.7				
	Continuous Power							
100	334	448	73	19.2				

General Engine Data				
Fuel Rating	FR21318			
Туре	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 (I)	34.1			
Flywheel dimensions	SAE 1			

Fuel Consumption 1800 (60 Hz)

%	kWm	ВНР	L/hr	US Gal./hr				
Standby Power								
100	466	625	107	28.3				
Prime Power								
100	424	569	96	25.2				
75	318	427	69	18.3				
50	212	285	47	12.5				
25	106	142	26	6.8				
Continuous Power								
100	382	512	84	22.2				

Coolpac Performance Data				
Cooling system design	Air-air charge cooled			
Coolant ratio	50% ethylene glycol; 50% water			
Coolant capacity (I)	48.0			
Limiting ambient temp.** (°C)	55			
Fan power (kWm)	24.3			
Cooling system air flow (m³/s)**	8.4			
Air cleaner type	Normal duty dry replaceable element with restriction indicator			

Dimensions

Туре	Length (mm)	Width (mm)	Height (mm)	Fuel Tank(L)	Weight (KG)
Open	3515	1250	2204	730	3097
Closed	4200	1500	2200	730	4620

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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

TAL 047 - 410 to 660 kVA - 50 Hz / 510 to 825 kVA - 60 Hz

Insulation class	Н	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-wire (12-wire option)	Excitation system 12-wire (option)	SHUNT AREP / PMG
Protection	IP 23	AVR type	R250 R180
Altitude	≤ 1000 m	Voltage regulation (*)	± 1 %
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (**) in no-load <
Air flow (m³/s) 0.9		Total Harmonic Distortion THI load < 5 %	O (**) in linear
Air flow (m ³ /s)	1.1	Waveform: NEMA = TIF (**)	< 50
AREP Short-circuit cu		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 П Lubricant oil heater Fuel and Water Separator Lube oil rotary pump **Alternator And Accessories:** Leroy somer/stamford Anti condensation heater Double bearing alternator High voltage_ RTDs for Bearing and winding Cooling System: 55 degree Radiator Remote Radiator **Control System:** AMF Parallel П Practical type in low temperature environment Control Screen Heater Remote Annunciators Other (ComP, DEIF) Circuit Breaker: 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 П Charging current meter П **External Fuel Tank:** Single /double wall fuel tank (500-5000 L) П 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

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:

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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