



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA Cummins 4BTAA3.3-G15 - 50 KVA

Engine Speed-RPM	Gross engine output			Net engine output			Typical generator set output			
	Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		Prime (PRP)	
1500	kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA
	57/77	50/67	46/62	53/71	46/61	42/56	44	55	40	50

General engine data

Type	Inline 4-Cylinder Diesel, Turbocharged & Charge Air Cooled
Bore mm	95 mm (3.74 in.)
Stroke mm	115 mm (4.53 in.)
Displacement litre	3.3 litre (199 in. ³)
Cylinder block	Cast iron, 4 cylinder
Battery charging alternator	37 amps
Starting voltage	12 volt
Fuel system	Direct Injection
Fuel filter	Spin on fuel filters with water separator
Lube oil filter type(s)	Spin on full flow filter
Lube oil capacity (l)	7.9
Flywheel dimensions	SAE 3/11.5

Coolpac performance data

Cooling system design	Jacket Water cooled
Coolant ratio	50%(Ethylene Glycol) : 50% (Water)
Coolant capacity (l)	13
Limiting ambient temp.** (°C)	55
Fan power (kWm)	3.3
Cooling system air flow (m ³ /s)**	1.971
Air cleaner type	Dry replaceable element with restriction indicator

Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US gal/hr
Standby Power				
100	57	77	15	4.0
Prime Power				
100	50	67	13	3.4
75	37	50	10	2.6
50	25	33	7	1.8
25	12	17	4	1.0
Continuous Power				
100	46	62	12	3.2

Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
Open	1950	775	1175	135	900
Closed	2260	1110	1500	135	1450

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

Mobile: +971502296962

E-mail: Info@ataswg.com

Website: www.ataswg.com



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Lubrication system		
Normal oil pressure range		
Low idle	kPa	207
Rated speed	kPa	345
Max. oil temperature permitted in oil pan	°C	121
Oil pan capacity (Max _ Min)	L	9.5_8.5
Lubrication system Min. capacity (oil pan + oil filter)	L	10.9
Usage inclining degree permitted (any direction)	°	40
Fuel system		
Fuel injection pump model	NYC A pump with	GAC governor
Max. fuel input resistance of transfer pump	mmHg	102
Max. overflow fuel resistance at overflow pipe of injector	mmHg	508
Total fuel overflow amount	L/h	30
Cooling system		
Coolant capacity-engine only	L	7.9
Max. coolant cycling resistance exterior engine	kPa	28
Thermostat adjusting temperature (range)	°C	82_95
Min. opening pressure of radiator cap	kPa	69
Max. coolant temperature permitted _ Standby Power/Base output Power	°C	
Electric system		
Starter	12V	24V
Battery charging system	63A	40A
Max. starting circuit resistance	0.00075Ω	0.002Ω
Min. battery capacity_ -12°C (CCA : Cold Cranking Ampere)	625CCA	312CCA
Technical data _ under standard fuel delivery rate FR9272-02	Base output Power	Standby Power
Engine speed _ RPM	1500	1500
Output Power _ kW	50	55

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ALTERNATOR SPECIFICATIONS

TAL 042 - Three-phase 25 to 60 kVA - 50 Hz / 31.5 to 75 kVA - 60 Hz

Insulation class	H	Excitation system 6-wire	SHUNT AREP
Winding pitch	2/3 (wind.6S - 6-wire / wind.6 - 12-wire)	AVR type	R120 R180
Number of wires	6-wire (12-wire option)	Excitation system 12-wire (option)	SHUNT AREP
Protection	IP 23	AVR type	R120 R180
Altitude	≤ 1000 m	Voltage regulation (*)	± 1 %
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (**) in no-load < 2 %	
Air flow 50 Hz (m³/s)	0.1	Total Harmonic Distortion THD (**) in linear load < 5 %	
Air flow 60 Hz (m³/s)	0.13	Waveform: NEMA = TIF (**)	< 50
AREP Short-circuit current = 2.7 In: 5 second		Waveform: I.E.C. = FHT (**)	< 2%

Control Panel

DSE4510
Auto Start Control Module
The DSE4510 is a compact Auto Start Control Module that has been developed to provide an outstanding range of features within a compact enclosure.
OVERALL SIZE
140 mm x 113 mm x 43 mm (5.5" x 4.4" x 1.5")
PANEL CUTOUT SIZE
118 mm x 92 mm (4.6" x 3.6")
MAXIMUM PANEL THICKNESS
8.0 mm (0.3")
WEIGHT
0.26kg
PRODUCT VARIANTS
4510-03 - 4510 Auto Start Control Module (Ct, Rtc)
4510-04 - 4510 Auto Start Control Module (Ct, Rtc, Htr)



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



STAMFORD
power generation

DSE



LEROI SOMER

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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