





DIESEL GENERATOR DATA SHEET

Power By Cummins

Model: AC525



AI POWER

Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standby	y Power
model	(V)				KVA	KW	KVA	KW
AC525	230/400	50	3	0.8	500	400	525	420

^{•220/380}V,240/415V,254/440V is avaliable

Dimension & weight

Generator set model	Type	L*W*H(mm)	Weight(kg)
AC525	Open	3100*1400*2100	3500
	Silent	3900*1700*2200	4300

Other datas

Circuit Breaker capacity(A)	800
Battery Brand	Varta
Base Fuel Tank Capacity(L)	808

Notes:

- Standby power: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046.
- Prime power: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO8528, ISO3046.
- •Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

Standard Features

•Engine include one set filters

- •Brushless Alternator with AVR
- •Radiator with engine driven fan
- •Auto control system with LCD show
- •3P circuit breaker
- Battery charger and Start battery
- •Industrial silencer
- •Anti-vibration pads
- •8hrs bottom fuel tank≤650KVA
- Standard tools kits
- •User manual & Wiring diagrams
- Standard tools kits

Options

Silent canopy	(powder coated)	
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•ATS

•Remote Control panel

- •Synchronization system
- •Mobile trailer
- •Engine heater (water/oil)
- •Fuel and water seperator
- •Alternator space heater
- •PMG
- •ABB or 4P circuit breaker
- •Exernal fuel tank
- •Double wall base fuel tank
- •Residential exhaust silencer

Warranty

- •The standard warranty period: One year after ex-work or 1000 operation hours whichever come first shall apply.
- •Consumable parts(air filter, fuel filter, lube oil filter), All failures and damages due to the mal-operation, neglect of maintenance and operation not according to the operation manual, are out of the scope of warranty.



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

Engine

GENER	ΔT	FNCII	VE I	

Engine manufacturer	Dongfeng Cummins Engine Co. Ltd
Engine brand	Cummins
Engine model	QSZ13-G3
Engine speed (rpm)	1500
Engine output(kWm)	
Standby Power	629
Prime Power	603
Continuous Power	529
No. of Cylinder	6
Aspiration	Turbocharged and Charge Air Cooled
Bore * Stroke (mm)	130*163
Displacment (litre)	13
Compression Ratio	17:01
Engine Idle Speed (rpm)	700-850

FUEL SYSTEM

Type Injection System		BYC P7100/Electronic Governor		
Fuel Consumption (litre/hour)				
100% prime power		101		
75% prime power		74.2		
	50% prime power	48.9		
	25% prime power	26		

EXHAUST SYSTEM

Maximum Back Pressure (kPa)	10
Exhaust Gas Temperature (standby/prime power) (°C)	542/533
Exhaust Gas Flow(standby/prime power) (litre/sec.)	643/584

AIR INDUCTION SYSTEM

Maximum Intake Air Restriction (kPa)		
with Dirty Filter Element		6.2
	with Clean Filter Element	3.7
Intake Air Flow (standby/prime power) (litre/sec.)		235/216

LUBRICATION SYSTEM

Oil Pressure (kPa)	
Idle Speed	103
Governed Speed	276 - 414
Maximum Oil Temperature (°C)	121
Min. required Lube system capacity-sump plus filters (liter)	27.6

COOLING SYSTEM

Coolant Capacity — Engine Only (liter)	11.1
Standard Thermostat Modulating Range (°C)	82-95
Maxi. Top Tank Temp. for Standby/Prime Power (°C)	104 / 100

ELECTRICAL SYSTEM

Cranking Motor (Heavy Duty, Positive Engagement) (volt)	12	24
Battery Charging System, Negative Ground (ampere)	100	70
Minimum Recommended Battery Capacity		
Cold Soak @ -18 to 0-C (0°F CCA)	1500	750

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Alternator

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd	
Alternator brand	Stamford	
Alternator model	S5L1S-D4	
Control system	SELF EXCITED	
A.V.R.	Included	
Voltage regulation	±1.0%	
Insulation system	Class H	
Protection	IP23	
Rated power factor	0.8	
Winding pitch	Two thirds	
Winding leads	12	
Frequency (Hz)	50	
Voltage (V)	400	
Phase	3	
Output ratings (kVA/kW)		
Cont.H-40°C	550/440	
Standby-27°C	590/472	
THF	<2%	
TIF	<50	
Max. overspeed (Rev/Min)	2250	
Bearing	Single	

Control System

Ai Power adopts ComAp AMF9 or Deepsea DSE6120 as the standard controller for single gen-set applications.. AMF25 or DSE7320 for option.



ComAP AMF9



Deepsea DSE6120

Protection function:

- •Low oil Pressure
- •High water temperature
- •High voltage and low voltage
- •Over current
- •Over speed
- •Emergency stop
- •Low fuel alarm and shutdown
- •Fail to start

Features

- •Single-genset controller for stand-by and prime power applications
- •3 phase AMF function
- •3 phase generator protections over/under frequency, over/under voltage, over current
- •True RMS voltage measurement
- •True RMS current measurement
- •Event and performance log Gen-set ext alarm, Engine hours history, ECU Text alarm, Test Run scheduler
- •Power Measurements
- •User interface
- •Inputs and outputs
 Configurable analogue/digital, binary
- •Direct communication with EFI engines
- •Engine Protections
- Oil pressure, Coolant temperature, Fuel level
- •Breaker control via fasica buttons
- •Fuel Pump control
- Optional Active Calls(SMS alarm/event)
- •Miscellaneous features
- •Communication interface
 - USB plug-in, Optional RS232, RS485, GSM
- •Multiple display languages
- •Start on low battery
- •Real-time clock
- •Zero power mode
- •LCD and LED alarm indication
- •Configuration Suite PC Software.
- •IP65 protection class
- •Remote monitoring

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Open and Silent Generator

Ai Power silent generator is widely used in residential area which require quiet environment, its reasonable and elegant design not only reduce the noise to applicable to the environment protection, but also a good view on the road. Our 10kva to 650kva generator adopts normal silent canopy, from 650kva to 1500kva adopts 20ft container canopy, the higher power

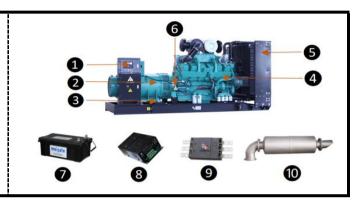
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Open Generator Standard Supply

The Open Type Generator Includes:

- 1. Automatic control panel.
- 2. 3 phases or single phase brushless alternator.
- 3. anti-vibration pad.
- 4. different brand engine.
- 5. water cooled radiator.
- 6. battery protection switch.
- 7. sealed lead acid free maintenance battery.
- 8. trickle battery charger.
- 9. 3P Chinese brand Circuit breaker.
- 10. Exhaust silencer, elbow and flange.



Silent Generator Standard Supply

Silent Generator Standard Supply:

- 1. AMF automatic control system
- 2. Fresh air inlet cooling system
- 3. Emerency stop
- 4. 3P Chinese brand Cricuit Breaker
- 5. Cable output placement
- 6. 8hrs strong base fuel tank
- 7. stainless steel hings
- 8. maintenance door



Silent Canopy Features

Silent Canopy Features:

- 1. more than 2mm thick steel canopy.
- 2. High quality paint and strict powder paint processing.
- 3. large-scale impedance combined type silencer.
- 4. Stainless steel door locks and hinges.
- 5. High quality fireproof, soundproof and insulation materials.
- 6. Clear monitoring control panel and outer emergency stop.
- 7. Lifting ear is mounted in the base frame for easy pull.
- 8. Fuel and lub oil drainout is all connected to the canopy.
- 9. Fuel refill opening is on the outer canopy.



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