



# **Output Ratings**

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
AC66	127/220	60	3	0.8	60	48	66	53
•220/380V 254/440V 277/480V is available								

•220/380V,254/440V, 277/480V is avaliable

#### **Dimension & weight**

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AC66	Open	1730*730*1285	800
AC00	Silent	2350*1000*1550	1250

#### Other datas

Circuit Breaker capacity(A)	225
Battery Brand	Varta
Base Fuel Tank Capacity(L)	128

#### 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.

#### 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.

# DIESEL GENERATOR DATA SHEET

# **Power By Cummins**

### Model: AC66



Standa	ard Features
•Engine	include one set filters
•Brushle	ess Alternator with AVR
<ul> <li>Radiate</li> </ul>	or with engine driven fan
	ontrol system with LCD show
•3P circ	uit breaker
<ul> <li>Battery</li> </ul>	charger and Start battery
•Industri	ial silencer
•Anti-vi	bration pads
•8hrs bo	ttom fuel tank≤650KVA
•Standar	d tools kits
•User m	anual & Wiring diagrams
•Standar	rd tools kits

Options
•Silent canopy (powder coated)
•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



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

#### GENERAL ENGINE DATA

Engine manufacturer		Dongfeng Cummins Engine Co. Ltd	
Engine brand		Cummins	
Engine model		4BTA3.9-G2	
Engine speed (rpm)		1800	
Engine output	(kWm)		
	Standby Power	66	
	Prime Power	60	
	Continuous Power	TBD	
No. of Cylinde	er	4	
Aspiration		Turbochanger& Aftercooler	
Bore * Stroke (mm)		102 * 120	
Displacment (litre)		3.9	
Compression Ratio		17.3:1	
Engine Idle Speed (rpm)		950-1050	

# FUEL SYSTEM

Type Injection System	BYC A/Electronic Governor	
Fuel Consumption (litre/hour)		
100% prime power	15.9	
75% prime power	12.2	
50% prime power	8.7	
25% prime power	5.5	

#### EXHAUST SYSTEM

Maximum Back Pressure (kPa)	10
Exhaust Gas Temperature (standby/prime power) (°C)	405/393
Exhaust Gas Flow(standby/prime power) (litre/sec.)	151/134

# 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.)		73/66

# LUBRICATION SYSTEM

Oil Pressure (kPa)		
	Idle Speed	207
	Governed Speed	345
Maximum Oil Temperature (°C)		121
Min. required Lube system capacity-sump plus filters (liter)		10.9

#### COOLING SYSTEM

Coolant Capacity — Engine Only (liter)	8.3		
Standard Thermostat Modulating Range (°C)	83-95		
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)	63	40
Minimum Recommended Battery Capacity		
Cold Soak @ -18 to 0-C (0°F CCA)	625	312

# ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	S1L2-Y
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	69.3/55.4
Standby-27°C	76.2/61
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.





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

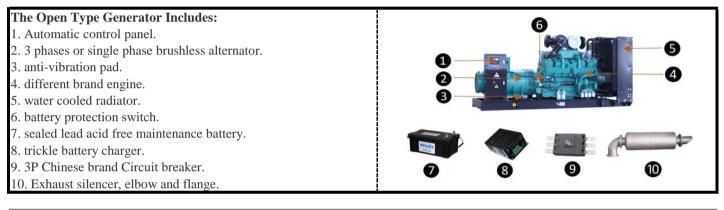
- •Single-genset controller for stand-by and prime power applications
- •3 phase AMF function
- •3 phase generator protections
- over/under frequency, over/under voltage, over current
- •True RMS voltage measurement
- •True RMS current measurement
- •Event and performance log
- Gen-set ext alarm, Engine 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

# **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 adopts 40HQ container canopy.



#### **Open Generator Standard Supply**



#### 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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