



DIESEL GENERATOR DATA SHEET

Power By Cummins

Model:AC100



Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standby	y Power
model	(V)				KVA	KW	KVA	KW
AC100	230/400	50	3	0.8	90	72	100	80

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

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AC100	Open	2080*785*1440	1150
AC100	Silent	3000*1100*1800	1800

Other datas

Circuit Breaker capacity(A)	160
Battery Brand	Varta
Base Fuel Tank Capacity(L)	178

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 ISO 8528,ISO 3046.
- •Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

Standard Configuration

- Engine include air, fuel, oil filters, starting motor and charge alternator etc.
- Brushless AC alternator, single bearing, flange connection, w/AVR
- Radiator with engine driven fan mounted on skid
- Channel steel base frame, <550KW base 8hrs mounted fuel tank as standard
- Anti-vibration pads between engine/alternator and base frame
- Circuit breaker 3P as standard, 4P optional
- Auto control panel
- Start battery w/ connecting cable and floating battery charger
- Flexbile pipe, exhaust elbow, industrial silencer etc.
- · Standard tools kit
- Electric drawing, test report ,operation & maintaince manual of generator etc.
- •Optional soundproof/Container canopy, ATS cabinet, remote control panel, synchronization panel, movable trailers, heat exchanger, remote horizontal water tank system, external fuel tank, etc

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.

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Engine

GENERA	T.	FNCIN	F DA	TA

Engine manufacturer Dongfeng Cummins Engine Co. Ltd			
Engine brand	Cummins		
Engine model	6BT5.9-G2		
Engine speed (rpm)	1500		
Engine output(kWm)			
Standby Power	92		
Prime Power	86		
Continuous Power	TBD		
No. of Cylinder	6		
Aspiration	Turbochanger		
Borer * Stroke (mm)	102 * 120		
Displacment (litre)	5.9		
Compression Ratio	17.3:1		
Engine Idle Speed (rpm)	750-850		

FUEL SYSTEM

Type Injection System Fuel Consumption (litre/hour)		BYC A/Electronic Governor	
	100% prime power	22.3	
	75% prime power	16.9	
	50% prime power	11.3	
	25% prime power	6.5	

EXHAUST SYSTEM

Maximum Back Pressure (kPa)	10
Exhaust Gas Temperature (standby/prime power) (°C)	565/525
Exhaust Gas Flow(standby/prime power) (litre/sec.)	280/250

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.)		108/100

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)	16.4

COOLING SYSTEM

Coolant Capacity — Engine Only (liter)	7.9
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)	63	40
Minimum Recommended Battery Capacity		
Cold Soak @ -18 to 0-C (0°F CCA)	625	312

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ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	UCI274C
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	100/80
Standby-27°C	110/88
THF	<2%
TIF	<50
Max. overspeed (Rev/Min)	2250
Bearing	Single

CONTROL SYSTEM



The **DEEPSEA DSE 6120** is an Auto Mains (Utility) Failure Control Module developed to provide a wide range of operating and monitoring features for single diesel and gas gen-sets.

DSE7320, ComAp AMF25 etc. for option.

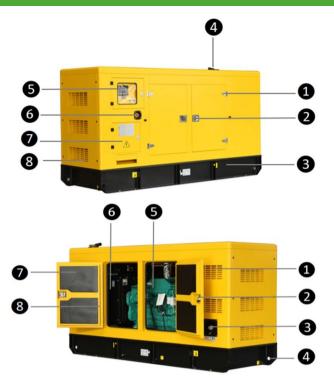
Protection function:

- •Low oil Pressure
- •High water temperature
- •High voltage and low voltage
- Over current
- Overspeed
- •Volt adjuster and frequency adjuster.
- •Emergency stop
- •Low fuel alarm and shutdown
- •Low coolant alarm and shutdown

Key Functions:

- Multiple display languages
- · Data logging facility
- Fully configurable via PC using USB communication
- Front panel configuration
- 3 phase generator sensing
- 3 phase mains (utility) sensing
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAr h)
- Generator/load current monitoring and protection
- Generator overload protection (kW)
- Breaker control via fascia buttons
- Fuel and start outputs, configurable when using CAN
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- \bullet Support for 0 to 10 V & 4 to 20 mA oil pressure sensors
- 6 configurable digital inputs
- Configurable staged loading outputs
- CAN, MPU and alternator speed sensing in one variant
- 3 engine maintenance alarms
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel pump control
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection.
- LCD and LED alarm indication

SILENT CANOPY



- 1)Durable stainless steel hinges
- 2Durable stainless steel hinges
- 3Strong base fuel tank
- 4) High performance exhaust silencer
- 5 Deepsea control system
- 6Emergency stop
- (7) High quality 3P Circuit breaker and terminal output
- 8 Fresh air inlet cooling system
- 1 air inlet cooling system
- 2 stainless door lock
- 3 fuel cap lock
- 4 tow holes
- 5 engine
- 6 radiator
- 7)insluation and soundproof materials
- 8 maintenance door

Performance Features:

- More than 2mm thick steel to make the canopy.
- High quality paint materials and strict powder paint processing.
- large-scale impedance combined type silencer effectively reduce noise of the generator.
- Stainless steel door locks and hinges and 180° revolvable and disassemble door for easy maintenance.
- High quality soundproof and insulation materials could efficiently reduce noise.
- Transparent viewing window make the control panel clear at a glance.
- Lifting earis mounted in the base frame for easy pull.
- From 10kva to 700kva we use normal silent canopy, more than 700kva we are using containerized canopy.
- ISO standard 20', 40' and 40HQ sea container canopy for options.
- Standard sea container canopy is easier for shipping.

AI POWER COMPANY SHOW

