



Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standby	y Power
model	(V)				KVA	KW	KVA	KW
AC22	230/400	50	3	0.8	20	16	22	18
•220/380V 240/415V 254/440V is available								

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AC22	Open	1610*730*1285	641
AC22	Silent	2250*1000*1550	1070

Other datas

Circuit Breaker capacity(A)	63	
Battery Brand	Varta	
Base Fuel Tank Capacity(L)	56	

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.

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:AC22



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



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

Xiamen AI Power Technology Co., Ltd.

GENERAL ENGINE DATA

Engine manufacturer		Dongfeng Cummins Engine Co. Ltd		
Engine brand		Cummins		
Engine model		4B3.9-G1		
Engine speed (rpm) 1500		1500		
Engine output(kWm)				
Standby	Power	27		
Prime Power		24		
Continuous Power		TBD		
No. of Cylinder		4		
Aspiration		Naturally Aspirated		
Borer * 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/RSV Mechanical
Fuel Consumption (litre/hour)		
	100% prime power	7.1
	75% prime power	5.7
	50% prime power	4.3
	25% prime power	2.8

EXHAUST SYSTEM

Maximum Back Pressure (kPa)	10
Exhaust Gas Temperature (standby/prime power) (°C)	410/380
Exhaust Gas Flow(standby/prime power) (litre/sec.)	71/68

AIR INDUCTION SYSTEM

Maximum Intake Air Restriction (kPa)				
with Dirty Filter Element		6		
	with Clean Filter Element	4		
Intake Air Flow (standby/prime power) (litre/sec.)		33 / 33		

LUBRICATION SYSTEM

Oil Pressure (kP	a)	
	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)	7.2
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	PI144D
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	20/16
Standby-27°C	22/17.6
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.

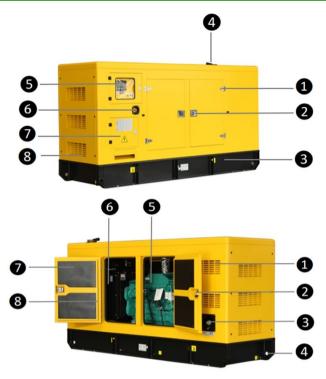
Protection function:

- •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
- Support for 0 to10 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



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

