AI POWER

DIESEL GENERATOR DATA SHEET

Power By Cummins

Model: AC1250



Output Ratings

Generator set model	Voltage (V)	Hz	Phase	P.F.	Prime Power		Standby Power	
					KVA	KW	KVA	KW
AC1250	230/400	50	3	0.8	1135	908	1250	1000

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

Dimension & weight

Generator set model	Type	L*W*H(mm)	Weight(kg)
AC1250	Open	4470*1805*2244	8550
	Silent	6058*2438*2896	12514

Other datas

Circuit Breaker capacity (A)	2000
Battery Brand	Varta
Daily Fuel Tank Capacity (L)	1936

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, with 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 with 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.

Xiamen AI Power Technology Co., Ltd.
Add: No.12 East Haijing Road, Xiamen Area of Pilot Free Trade Zone of China.
Tel: +86-592-6031835 | Email: sales@aipowergen.com | www.aipowergen.com

Engine

GENERAL ENGINE DATA

Engine manufacturer		Cummins Engine, Inc.
Engine brand		Cummins
Engine model		QSK38-G2
Engine speed (rpm)		1500
Net engine output(kW)		
	Standby power rating	1059
	Prime power rating	963
Type		4-Cycle, 12V Cylinder
Aspiration		Turbocharged and aftercooled
Borer * Stroke (mm)		159 * 159
Displacment (litre)		37.7
Battery Charging Alternator		55A
Starting Voltage		24 volt
Fuel Filter		Spin on fuel filters with water separator
Lube Oil Filter Type(s)		Spin on full flow filter
Lube Oil Capacity (l)		170
Flywheel Dimensions		SAE 0

COOLING SYSTEM

Cooling System Design	2 pump - 2 loop
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (L)	Engine only – not applicable
Limiting Ambient Temp.**(°C)	Engine only – not applicable
Fan Power (kWm)	Engine only – not applicable
Cooling System Air Flow (m3/s)**	Engine only – not applicable
Air Cleaner Type	Dry replaceable element with restriction indicator

FUEL SYSTEM

Type Injection System		Direct injection Cummins MCRS
Fuel Consumption (litre/hour)		
	110% output power	271
	100% output power	242
	75% output power	193
	50% output power	139
	25% output power	78

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ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	LVI634G
Control system	PMG
A.V.R.	Included
Voltage regulation	±1%
Insulation system	Class H
Protection	IP23
Rated power factor	0.8
Winding pitch	Two thirds
Winding leads	6
Frequency (Hz)	50
Voltage (V)	400
Phase	3
Output ratings (kVA/kW)	
----------Cont.H-40°C	1250/1000
----------Standby-27°C	1313/1050
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

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SILENT CANOPY



①Durable stainless steel hinges
②Durable stainless steel hinges
③Strong base fuel tank
④High performance exhaust silencer
⑤Deepsea control system
⑥Emergency stop
⑦High quality 3P Circuit breaker and terminal output
⑧Fresh 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



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