



宾士动力
BS POWER

GB/T9001-2008 idt ISO9001:2008
GB/T24001-2004 idt ISO14001:2004



Quanchai Diesel Generator Set

Model No.: BQCSZ88J

Standby Power 88KW



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Powered by

Quanchai: 4108ZLD

Standby 88KW at 50Hz, 380V



Genset Technical Data:

Genset Model:	BQCSZ88J
Prime Power:	60KW
Standby Power:	66KW
Frequency/Speed:	50Hz/1500rpm
Rated Voltage:	380V
Power Factor:	0.8
FUEL CONSUMPTION RATE (G/KW·H) :	≤201
Base fuel tank:	160L
Phase:	three-phases, four-wires
Engine:	Quanchai
Alternator:	Shenzhou
Controller:	Smartgen
Dimensions (LxWxH):	2700*1050*1400mm
Net Weight:	1300kgs

- (1) PRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation. In accordance with ISO 3046-1.
- (2) ESP: The Standby Power Rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

Advantages:

1. **Unique engine injection pressure and construction:** Unique Quanchaifuel system, 4 valves per cylinder, direct injection, turbocharged & intercooled.
2. **Advanced production technology:** higher strengthen and reliability because of alloy cast iron cylinder body & cover and complete equilibrium structure crankshaft.
3. **Advanced electrical control technology:** full control system design, use advanced ECU intelligent control patch, with real-time monitoring for engine. With fault reserve function.
4. **High operating reliability:** high strength cast cylinder and crankcase provide solid crankshaft support and reduce weight. The engine has enough safety power reserve to cope with 50% over-speed.
5. **Economy:**
 - 1) The engine set consumes less fuel and oil, so the operating costs are low, fuel consumption rate is 195-2D8 g / kWh.
 - 2) With the world's longest working time before first overhaul.

Quanchai Engine

Model: 4108ZLD

Manufacture: China



General features:

- 1.Direct injection combustion chamber,easy to start, low oil consumption and economical to use.
- 2.Easy to install and layout,light weight and compact structure.
- 3.Strong power , low vibration , lowsteady state speed governing rate.
4. Spare parts have good versatility.
- 5.Power interface conforms to the SAE standard, good market interchangeability and versatility

MODEL	4108ZLD	
BORE*STROKE(MM)	108×118	
TOTAL DISPLACEMENT(L)	4.324	
REATED SPEED(R/MIN)	1500	1800
RATED POWER(KW)	88	98
TOTAL COOLANT CAPACITY	20.65L	
ENGINE OIL CAPACITY	11L	
MAX OVERALL DIMENSIONS	887×601×798mm	
FLYWHEEL TEETH NUMBER	126	
WET WEIGHT(KGS)	365	
EXHAUST FAN DIAMETER (mm)	Φ450	
FLYWHEEL SHELL SIZE	SAE3#	
IDLE SPEED	≤950	
STEADY STATESPEED GOVERNING RATE %	≤5	
MAX SPEED ON NO LOAD (R/MIN)	1575	1890
MIN SPEED ON NO LOAD (R/MIN)	800	
SPECIFIC FUEL CONSUMPTION RATE AT MAX. SPEED (G/KW·H)	≤201	
NET WEIGHT (KG)	365	
ROTATION (VIEWED FROM FLYWHEEL)	COUNTER CLOCKWISE	
FLYWHEEL HOUSE SIZING	SAE3#	
FLYWHEEL SIZING	SAE11.5"	
NUMBER OF TEETH OF THE FLYWHEEL	120	

Shenzhou Alternator

Model: SZN274C

Origin: China

General Features:

- ◆ Automatic Voltage Regulator Self regulating.
- ◆ Stator leads can be rewired to meet different voltage requirements.
- ◆ Class 'H' insulation.
- ◆ Single and double fulcrum optional, single fulcrum could match kinds of transition jacket and connecting disc.
- ◆ High-quality lubrication sealed long-time bearing.
- ◆ Accordance with GB755、 IEC60034 、 BS5000 、 VDE0530 、 CSA22.2-100 standard.
- ◆ Optional PMG permanent magnet excitation system.



Main Technical Data:

Prime power	80KW
Rated Voltage:	380V
Frequency/Speed:	50Hz/1500rpm
Power Factor:	0.8
Efficiency:	86.2%
Regulator:	AVR self-regulation
Stator:	2/3 winding pitch
Exciter Type:	Brushless excitation
Windings:	100% copper
Voltage regulation:	± 1%
Overspeed:	2250min-1
Short circuit current capability:	/
Indication of protection:	IP23
Insulation class	H
Total Harmonic Distortion:	NO LOAD < 1.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%
Telephone Influence Factor(TIF):	<50
Telephone Harmonic Factor(THF):	<2%

Smartgen Control System

Model: HGM6120N



Operating Environment:

Operating temperature:	-20℃～60℃
Relative humidity:	95%
Operating voltage:	DC24V(range: 18-30V, withstand voltage: 50V/5mm)

General Features:

- ◆ Compact size, reliable performance, easy to operation.
- ◆ Automatic detection function and multi-protection function, protect the generator operating safety and steady.
- ◆ Multi-interface display generator's working and alarm condition, visualized and clear to watch.
- ◆ Microcomputer control panel: set parameters such as input, output, alarm and time delay.
- ◆ Multiple operating modes: maintenance mode, manual mode and automatic mode.
- ◆ Start automatically when main supply is abnormal (over-tension, voltage too low, voltage loss).
- ◆ LCD can show all the parameters for the diesel generator.
- ◆ Protective cutoff function when the generator set failed.
- ◆ LCD alarm display, sound-light alarm control output.
- ◆ Manual/automatic/three-remotes function and electric supply/generate electricity automatic switch on-off control.
- ◆ Support RS232/RS485 communication mode (MODBUS protocol).

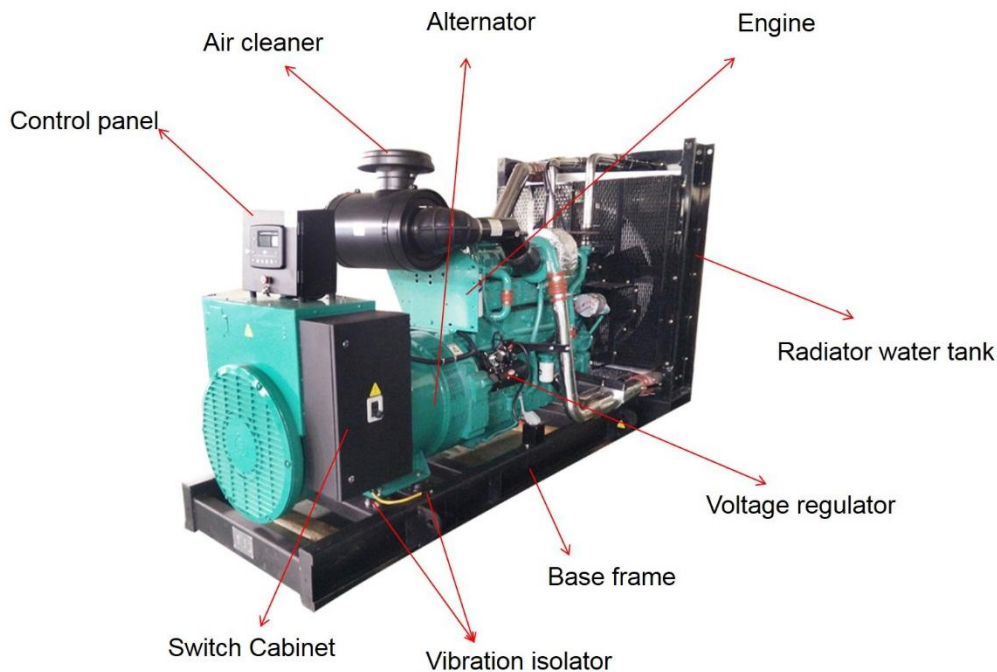
Protection:

- ◆ High/low voltage & frequency.
- ◆ Revolving speed lack of /exceed.
- ◆ Low oil pressure.
- ◆ High water temperature.
- ◆ Over current/ short trouble, emergency stop

Circuit Breaker

Capacity:	100A
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Genset Outlook



Standard Supply Scope:

- ◆ Drive fan for engine and 40℃ heat radiating water tank.
- ◆ Moulded case circuit breaker
- ◆ Battery and battery cable
- ◆ Float battery charger
- ◆ Base frame with vibration isolator
- ◆ Daily fuel tank
- ◆ Exhaust elbow, exhaust bellows, exhaust muffler
- ◆ Fuel filter, oil filter, air filter
- ◆ Tool kits

- ◆ Plastic membrane packing
- ◆ English testing report, quality certificate, service manual and warranty card

Optional Supply Scope:

- ◆ Water jacket pre-heater
- ◆ Fuel and water separator
- ◆ Fuel pre-heater
- ◆ External daily fuel tank
- ◆ ATS
- ◆ Synchronization system
- ◆ Standard container
- ◆ Rain-proof canopy
- ◆ Sound-proof canopy
- ◆ Trailer



Binshi Sales Promise

1. **Pre-sales service:** Our professional engineers give **reasonable suggestions** about selection, room design to all the technical solutions.
2. **Selling service:** we provide the **technical support** for the genset installation, test, room noise reduction, dust pollution ect.
3. We have **24 hours Standby** after-sales engineers and **sufficient original plant components** system.
4. **Quality Warranty** is according to our standard conditions: 12 months from BL date or 1,000 running hours. (whichever comes first.)

