

Energybak

NG

LPG

Dual-Fuel **60HZ** **POWER GENERATORS**

FOR

RESIDENTIAL AND COMMERCIAL PURPOSE

10KW - 30KW



Faced with the constant faults and interruptions of electrical power?

ENERGYBAK is your BEST option.

www.energybak.com

About POWERGEN Generators

FUJIAN BEST INDUSTRIAL CO., LTD (Brand: POWERGEN) -China, is a professional orientation factory committed to the research and development that manufactures gas powered generators, including: NG, LNG, CNG, LPG, gasoline etc.

POWERGEN products are developed and manufactured under the policies of:

- Use of high technology and constant innovation
- Strict quality controls
- Protection and care of the environment



POWERGEN is your IDEAL Solution

POWERGEN range of Dual-fuel generators are safe and reliable. They are specially designed to offer high-performance power during utility outages and emergency situations. Most generators are LIQUID COOLED and powered by a 4-cylinder automotive engine, equipped to use either liquid propane or natural gas as fuel, It contributes to the energy savings and the decrease in electricity bill costs in a simple and environmental-friendly way.

FEATURES

- Lower Cost
- Lower Emissions
- Lower Noise Level
- More Fuel Options
- Longer Engine Life
- Higher Reliability
- Easier Installation
- Compact & Elegant

SUPPORT

- Guaranteed spare parts
- 1-year warranty
- Unlimited support
- Scheduled maintenance plans





MODEL NO.	BNL25SE
RATED POWER (NG)	24KW [30.0KVA]
RATED POWER (LPG)	25KW [31.0KVA]
RATED FREQUENCY (HZ)	60
PHASE	SINGLE [THREE]
POWER FACTOR	1.0 [0.8]
CONTROLLER	SMARTGEN HSC940

ENGINE

ENGINE MAKE	LIFAN
ENGINE MODEL	470Q1
DISPLACEMENT (cc)	1216
COMPRESSION RATIO	9.8:1
SPEED (RPM)	3600
IGNITION SYSTEM	ECM IGNITION
ELECTRIC START	YES
STARTING MOTOR	QDY112 12V/0.8KW
BORE&STROKE(mm×mm)	L4-70×79
ASPIRATION TYPE	NATURAL
OIL CAPACITY(L)	3.5
ROTARY OIL FILTER	YES
CHARGING POWER	14V/70A
STARTING BATTERY	12V45AH (550CCA)
COOLING SYSTEM	LIQUID COOLED
LOW OIL PRESSURE SHUTDOWN	YES

ALTERNATOR

MAKE	POWERGEN
TYPE	SYNCHRONOUS
POLE	2-POLE
EXCITATION	SELF-EXCITED
STATOR WINDING MATERIAL	100% COPPER
ROTATOR WINDING MATERIAL	100% COPPER
VOLTAGE REGULATION	AVR
VOLTAGE STEADY TYPE	ELECTRONIC
VOLTAGE ADJUSTING	± 1%
BRUSH OR BRUSHLESS	BRUSH
THD @FULL LOAD	≤ 5%
INSULATION	F
CONNECTION METHOD	DIRECT COUPLING
GOVERNOR	ELECTRONIC
FREQUENCY REGULATION	SYNCHRONISED
STEADY FREQUENCY ADJUSTING	± 0.5%

FUEL CONSUMPTION @100% LOAD

NG (m ³ /hr)	7.6
LPG (L/hr)	12.8



ENCLOSURE

CANOPY TYPE	POWDER COATING
PROTECTION LEVEL	IP 23
EMERGENCY STOP BUTTON	YES
FUEL SOLENOID	DUAL SOLENOID
ENCLOSED MUFFLER	YES
WHEEL	YES
SOUND INSULATION MATERIALS	NOISEPROOF COTTON
NOISE LEVE @ 7M dB(A)	55

GAS INLET PRESSURE

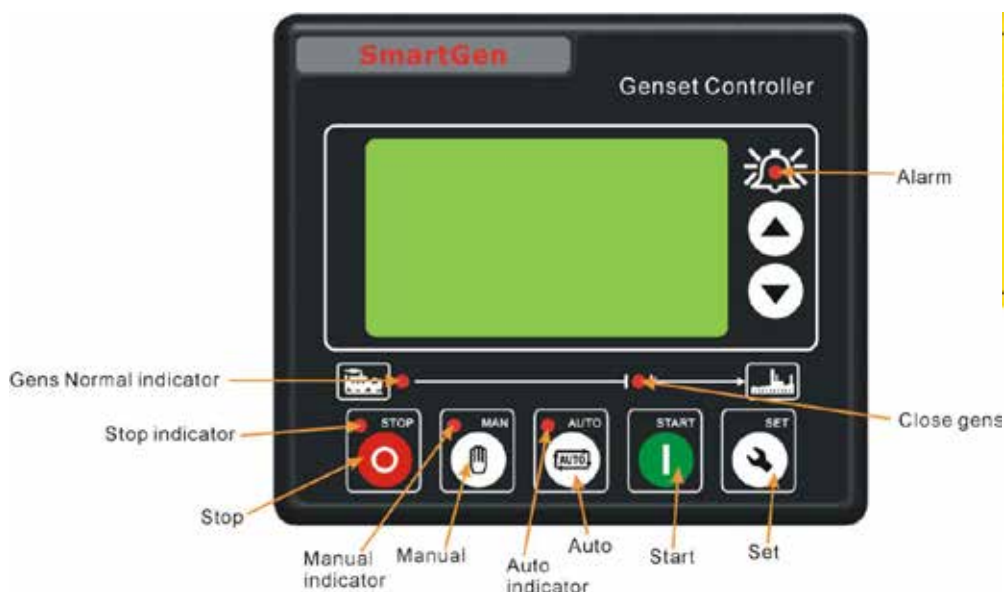
NG PRESSURE RANGE kPa	1.3-3.5
LPG PRESSURE RANGE kPa	1.7-3.5

DIMENSIONS & WEIGHT

UNIT DIMENSION (L×W×H) mm	1290×825×940
PACKAGE DIMENSION (L×W×H) mm	1350×880×1100
NET WEIGHT (kg)	420
GROSS WEIGHT (kg)	460
20/40GP/40HQ CONTAINER (pcs)	20/40/40

SmartGen®

HSC940



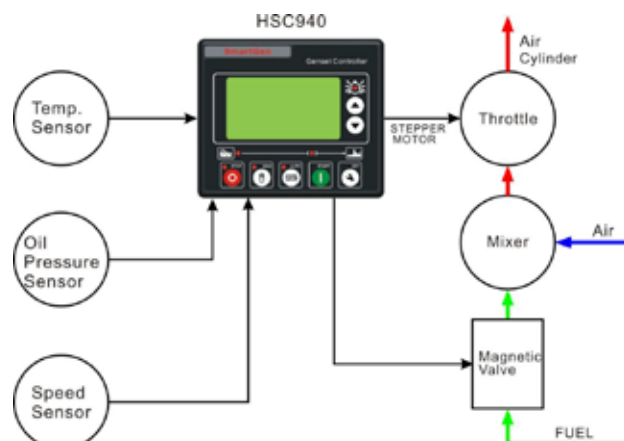
HSC940 genset controllers integrate digitization, intellectualization and network technology which are used for gas genset automation and monitor control system of single unit to achieve automatic start/stop, data measure, alarm protection, three remote: remote control, remote measuring and remote communication (SG485 module must be fitted) and speed regulation. The controller adopts large liquid crystal display (LCD) and selectable Chinese, English, Spanish and Russian interface with easy and reliable operation.

CHARACTERISTICS

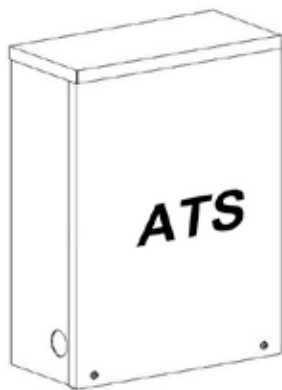
- 132×64 LCD with backlight, multilingual interface (including Chinese, English, Spanish and Russian), pushbutton operation;
- Suitable for 3-phase 4-wire, 3-phase 3-wire, single phase 2-wire, and 2-phase 3-wire systems with voltage 120/240V and frequency 50/60Hz;
- Collects and shows 3-phase voltage, current, power parameter and frequency of generator.
- For generator, controller has over and under voltage, over and under frequency functions;
- Speed regulation function (via Driving Stepper Motor);
- Precision measure and display parameters about Engine,
- Protection: automatic start/stop of the genset, ATS(Auto Transfer Switch) control with perfect failure indication and protection function;
- ETS (Energize to Stop), idle control, preheat control and raise speed/drop speed control; in addition, they are all relay output.
- Parameter setting: parameters can be modified and cannot be lost even in case of power outage; all parameters can be configured from front panel, or by configurable port to adjust via PC.
- Widely power supply range DC(8~35)V, suitable to different start battery voltage environment;
- All parameters used digital adjustment, instead of conventional analog modulation with normal potentiometer, more reliability and stability;
- Modular design, self-extinguishing ABS plastic enclosure, pluggable connection terminals and embedded installation way; compact structure with easy mounting.

APPLICATIONS

HSC940, used for single automation systems; it regulates the speed simply by adjust the throttle opening via the driving stepper motor; auto start/stop of the unit are performed with the help of remote signal.



FEATURES



Automatic Transfer Switch (hereinafter referred to as ATS) only utilizes the very best ATS components and AC Contactors for the main switches, and are manufactured from advanced and closely controlled production processes. They can be paired with any of our automatic generator sets, in order to form a complete and thorough Mains, Gas generator or Gasoline generators Automatic Transfer Systems. The ATS is characterized by its small size, easy operation, fast switching speed and high reliability.

MCQ2 Model is double segments (without Neutral Position, transfer sequence: Mains to Generator) dual power transfer switch.

SPECIFICATIONS

Model		MCQ2									
Rated Voltage		AC400V/690V				DC125V/250V					
Rated Current		20A-63A		80A 100A 125A		160A 200A 225A 250A					
Coil Quantity		Double Coils									
Wiring Method		Front									
Pole		2P	3P	4P	2P	3P	4P	2P	3P	4P	
Weight(KG)		4.5	5	5.5	5	5.5	6	6	8	10	
Operating Current	DC100V (A)	3	3	4	3	3	4	3	4	5	
	AC100V/110V (A)	3	3	4	3	3	4	3	4	5	
	AC200V/220V (A)	1.5	1.5	2	1.5	1.5	2	1.5	2	2.5	
Tripping Current	DC100V	1A									
	AC100V/110V	1A									
	AC200V/220V	0.5A									
Performance	Short-time Withstand Current		5KA				10KA				
	Rated Conditional Short-circuit Current		12.5KA				25KA				
	Connecting and Breaking Capability		AC-33B(10Ie Connect • 8Ie Break) cos=0.35 DC-33B 1.1Ie Connect • 1.1Ie Break L/R=1 ms								
	Switching Time	A power side	Control	55ms							
			Break	20ms							
	B power side	Control	80ms								
		Break	20ms								
Life		Electrical: 2500 operations, Mechanical: 10000 operations									
Operating Recycles		120 operations/hour									
Auxiliary Switch		A power side 1C, B power side 1C, Switch Capacity AC100V 5A		AC200V 2.5A		DC100V 0.5A					
Accessories		Manual Operation Handle									



9 ft long Controller wiring harness with male plug located inside ATS



ATS Receptacle on generator

TESTING



TOOL KITS & ACCESSORIES



PACKING & SHIPPING

