

GLOBAL POWER SOLUTIONS

DELIVERING POWER, DELIVERING CONFIDENCE

TOWNSVILLE - BRISBANE - PERTH

20KVA GP23000SE3

20kVA Prime / 21kVA Standby

Comprehensive Specification Sheet
Electrical and Mechanical Data



hi-EARNS

3ph

GP23000SE3

20kVA Prime / 21kVA Standby / Three Phase

FEATURES & BENEFITS

- 20VA standby power at 415 @ 50Hz 3000rpm
- High-quality and reliable V-Twin Cylinder 1326cc Hiearns diesel engine
- Ideal for home and business applications
- Silent canopy which can stand outside with lockable doors
- Automatic changeover (ATS), maintenance free batteries and trickle charger OPTIONAL
- 2 wire and 5 wire Auto start outlets
- H-specification insulation, brushless alternator with AVR provides stable output
- High-temperature and oil pressure sensor to protect against engine damage
- Easy to use digital controller with auto/manual start options
- All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery
- Peace of mind of earlier of 12 Month/500 hour warranty



CANOPY

- Ventilation parts are designed with modular principles
- Weather resistant and lined with sound reducing foam
- Galvanised steel canopy - painted with powder paint
- Panel window
- Lockable doors on each side
- Easy maintenance and operation
- Easy lifting and moving
- Thermally insulated engine exhaust system
- Exterior emergency stop push button
- Sound attenuated

CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

CHASSIS

- The complete generator set on wheels
- Steel chassis and anti-vibration pads for engine and alternator
- The generator can be lifted or carefully pushed/pulled by the base frame

Overview

Standby power	21 kVA - 16.8KW
Prime power	20kVA - 16KW
Phase	Three
Dry weight	325kg
Length	1250mm
Width	750mm
Height	810mm
Fuel tank capacity	30L

METERING VIA LCD DISPLAY

- Mains volts (L-L/L-N)
- Generator amps (L1, L2, L3)
- Generator frequency; generator (cos)
- Engine hours run; plant battery (volts)

AUTOMATIC SHUTDOWN AND FAULT CONDITIONS

- Low oil pressure; charge

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TECHNICAL SPECIFICATIONS

*All ratings are quoted at maximum ratings at sea level and derating will be applicable for altitude and power factor.

Engine

Engine make	HiEarns
Engine model	HR2V98FD
Displacement	1326CC
Cylinder bore/Stroke	98mm x 84mm
Fuel system	Mechanical
Governor	Mechanical
Cylinders	V-Twin Cylinder – Air Cooled
Engine output power (3000rpm)	22W
Turbocharged/normally aspirated	Natural
Cycle	V-Twin Cylinder – 4 stroke
Combustion system	Injection
Compression ratio	-
Fuel tank capacity	30l
Fuel consumption 100%	2.7/h *
Fuel consumption 75%	2.6 l/h *
Fuel consumption 50%	2.2/h *
Fuel consumption 25%	1.7 l/h *
Oil type	15W40
Engine oil capacity	2.3l
Cooling method	Air
Coolant capacity	N/A
Starter	12v DC starter charge rectifier
Engine speed	3000rpm
Filters	Replaceable fuel filter/oil filter/dry element air filter
Battery	Maintenance-free battery including rack and cables
Silencer	Exhaust silencer

Alternator

Alternator	Dingol
Standby power output	21VA
Prime power output	20kVA
Insulation class	Class-H with circuit breaker protection
Type	Brush
Phase and connection	3 phase
AVR	Included
AVR model	SX460
Voltage regulation	± 1%
Voltage	415/240
Rated frequency	50Hz
Voltage regulate change	≤ ±10% UN
Phase change rate	± 1%
Power factor	0.8φ
Protection class	IP23 standard/screen protected/drip-proof
Stator	2/3 pitch
Rotor	Single bearing
Excitation	Self-exciting
Regulation	Self-regulating

General

Structure type	Silent weather resistant enclosure
Dimensions Length x Width x Height	1250mm x 850mm x 810mm
Dry weight	160kg
ATS unit included	Optional
Four-way protection system included	Included