



GENERATOR KING

GKP-880



KEY SPECIFICATIONS

STANDBY POWER	880kVA
PRIME POWER	800kVA
PHASE	Three
DRY WEIGHT	7100kg
LENGTH	3900mm
WIDTH	2300mm
HEIGHT	2000mm
FUEL TANK CAPACITY	1050L

FEATURES & BENEFITS

- Maximum 880kVA standby power at 230/400v @ 50Hz 1500rpm
- High quality and reliable six cylinder 22.921L 4006-23TAG3A Perkins diesel engine
- Leroy Somer alternator
- Silent canopy which can stand outside with lockable doors
- Automatic changeover (ATS), maintenance free batteries and trickle charger included

- H-specification insulation, brushless alternator with AVR provides stable output
- High temperature and low oil, water and fuel protection to protect against engine damage
- Easy to use Deep Sea 7320 digital controller with auto and manual start options
- All sets undergo a comprehensive testing/pre delivery inspection prior to delivery
- Peace of mind of earlier of one year/1000 hour warranty

STANDARD GENSET SPECIFICATIONS

ENGINE

Perkins diesel engine
 Six cylinder, water cooled, turbocharged
 Electronic governor control system
 24v DC starter and charge alternator
 Replaceable fuel filter, oil filter and dry element air filter
 Cooling radiator and fan
 Fuel connection hoses and manual sump oil drain valve
 Exhaust silencer
 Maintenance free battery including rack and cables
 Jacket water heater (as option)
 Perkins engine manual

ALTERNATOR

Leroy Somer alternator or similar
 Brushless, single bearing system, four poles
 Insulation class H with circuit breaker protection
 Standard degree of protection IP22
 Self-exciting and self-regulating
 AVR included
 Screen protected and drip proof
 Stator winding with 2/3 pitch for improved harmonics
 Close voltage regulation

CHASSIS

Steel chassis and anti-vibration pads
 Base frame design incorporates an integral fuel tank
 The generator can be lifted or carefully pushed/pulled by the base frame
 Includes diesel level sensor information to the controller

CANOPY

Ventilation parts are designed with modular principles
 Weather resistant and lined with sound reducing foam
 All metal canopy parts are painted by powder paint
 Panel window
 Lockable doors on each side
 Easy maintenance and operation
 Easy lifting and moving
 Insulated engine exhaust system
 Exterior emergency stop push button

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

CONTROL SYSTEM

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

AUTO MAINS FAILURE CONTROL PANEL

Smartgen series automatic transfer switch module
 Deep Sea 7320 electronic controller
 Emergency stop push button
 Static battery charger
 Four-pole electrically and mechanically interlocked ATS

GENERATING SET CONTROL MODULE DEEP SEA 7320 FEATURES

This module is used to monitor a mains supply and automatically start a standby generating set
 Microprocessor based design
 Monitors engine performance and AC power output
 LCD and LED alarm indication; GSM SMS input slot (as optional extra)
 Front panel configuration of timers and alarm trip points
 Provides signal to change over switch panel
 Event logging and shutdown alarms
 Remote communication via RS232 port or RS485 output
 Easy push button control
 STOP/RESET-MANUAL-AUTO-TEST-START
 Operation indicators accessed by the LCD display
 Scroll push button

METERING VIA LCD DISPLAY

Generator volts (L-L/L-N); mains volts (L-L/L-N)
 Generator amps (L1, L2, L3); generator (kVA and kW)
 Generator frequency
 Engine hours run; plant battery (volts)
 Engine oil pressure (psi and bar)
 Engine speed (rpm)
 GSM SMS signal
 Phase rotation
 Engine temperature (°C)

AUTOMATIC SHUTDOWN AND FAULT CONDITIONS

Under/over speed; fail to start
 High engine temperature; fail to stop
 Low oil pressure; charge fail
 Under/over generator volts; over current
 Under/over generator frequency; emergency stop
 Under/over mains frequency
 Under/over mains voltage
 Low/high battery volts



GKP-880



SPECIFICATIONS TABLE

ENGINE SPECIFICATIONS

Engine make	Perkins
Diesel generator model	4006-23TAG3A
Displacement	22.921l
Cylinder bore/Stroke	160mm x 190mm
Fuel system	Electronic
Cylinders	6
Standby power @ 1500rpm	721kW
Base power @ 1500rpm	521kW
Diesel tank capacity	1050l
Fuel consumption standby	203 l/h
Fuel consumption prime	175 l/h
Fuel consumption 75% prime	132 l/h
Fuel consumption 50% prime	88 l/h
Oil type	15W40
Oil capacity	120l
Coolant capacity (including radiator)	120l
Starter	24v DC
Governor system	Electronic
Engine speed	1500rpm
Engine coolant flow	10 l/sec
Firing order	1-5-3-6-2-4
Compression ratio	13.6:1

ALTERNATOR SPECIFICATIONS

Alternator brand	Leroy Somer
Standby power output	880kVA
Prime power output	800kVA
Insulation class	H
Type	Brushless
Phase and connection	Three phase, four wire
AVR	Yes
AVR model	R450
Voltage regulation	± 1%
Voltage	400/230v
Rated frequency	50Hz
Voltage regulate change	≤ ±10% UN
Phase change rate	± 1%
Power factor	0.8
Protection class	IP23
Stator	2/3 pitch
Rotor	Single bearing

GENERAL SPECIFICATIONS

Structure type	Silent weather resistant enclosure
Dimensions Length x Width x Height	3900mm x 2300mm x 2000mm
Dry weight	7100kg
ATS unit included	Yes