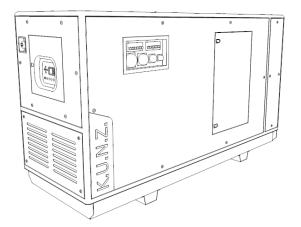
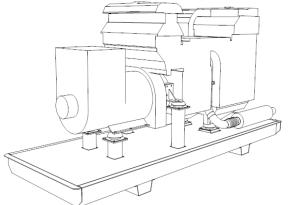


KZS800PS

Prime 811 kVA **Diesel Generating Sets**





Voltage	Prime*	
Voltage	kVA	kW
380-415	811	649

Standby*		Amnono	
kVA	kW	Ampere	
890	712	1130	

Prime Rating

Applicable for supplying continuous electrical power at variable load for unlimited hours. This model can supply 10% overload

power for a period of 1 hour in 12 hours operation as it is defined in ISO 3046.

Standby Rating Applicable for supplying continuous power ar variable load in the event of a utility power failure and overload is not allowed as it is

defined in ISO 8528-3.

Standard Generator Features

- AMF, Automatic mains failure unit
- · Heavy duty type, 6 cylinder, water cooled engine
- ♦ 50°C tropical type radiator
- Starter motor
- · Lead acid battery
- · Charging alternator
- Battery charge redressor
- Heavy duty, brushless type alternator
- Base frame with anti-vibration units
- · Industrial type silencers
- · Flexible exhaust compensator
- · Block water heater unit
- Control panel with digital-automatic main control module
- Fan, fan drive, charging alternator drive and all rotating parts covered
- · Radiator matrix covered by metal mesh against the mechanical damages
- · Fabricated and welded steel base frame
- Anti-vibration mountings
- · Engine and alternator manufacturer test reports
- Factory load, performance and function tests

Optional Features

- Automatic load transfer panel
- Automatic syncronization and power sharing systems
- ♦ Soundproof canopy
- Container type enclosers
- Road trailer
- Job-site trailer
- · Protection circuit breaker
- Air start
- · Remote type radiator
- · Base fuel tank
- External type fuel tank
- Automatic fuel transfer system
- · Residential silencer

Dimensions & Weight

Open Type	Dry Weigt kg	Length mm	Width mm	Height mm	Tank Capacity L
KZS800PS	4500	4150	1600	2170	599
Sound	Dry Weigt	Length mm	Width mm	Height mm	Tank Capacity
Attenuated	kg	111111	111111	111111	L
KZS800PS	6500	5400	2100	2900	1184

K.U.N.Z. Handels-&Produktions GmbH

Headquarter

Oskar-von-Miller-Strasse 29 68309 Mannheim, Deutschland Tel. : +49 621 - 76 217 733 Faks: +49 621 - 76 217 734

U.K. Branch

1 Canada Square Canary Wharf, Floor 37 London, United Kingdom Tel. : +44 (0) 20 7718 0185 Faks: +44 (0) 20 7718 0001

Turkey Branch

Mansuroglu Mh. 295/2 Sk. Ege Sun Plaza A Blok No:1 K:6 D:652 Bayraklı, 35535 İzmir Telefax. : +90 232 461 66 91





Diesel Generating Sets

Engine Technical Data

Manufacturer	PERKINS
Model	4006-23TAG3A
Type	4 cycle, water-cooled
Number of cylinders	6
Cylinder arrangement	Vertical in-line
Displacement, Liters	22,921
Bore X Stroke, mm	160 X 190
Compression Ratio	13,6:1
Combustion System	Direct injection
Aspiration	Turbocharged, air to air cooled
Rotation	Anticlockwise viewed on flywheel
Gross engine power, kWb	786
Fan Power, kWm	26
BMEP gross, bar	27,34
Combustion air flow, m3 / min	73
Exhaust gas temp.(after turbo), °C	500
Exhaust gas flow (after turbo),m3 / r	193
Mean piston speed, m / s	9,5

Fuel System

Type of injection system	Direct injection
Fuel injection pump	Combinet unit injector
Delivery/hour at 1500rev/min, Lt	660
Governor type	Heinzmann digital governor
	governing to ISO8528-5 Class G2
Direct fuel injection system, fuel l	ift pump

^{*}Fuel cooler

Cooling System

Type	Tropical, heavy duty type
Ambient temperature, °C	50
Engine&Radiator coolant capacity	105
Jacket coolant flow Liters/sec	10
Cooling minimum airflow m³/min	1200 (@ 50°C)
♦ Twin thermostats water pump	

Lubrication System

Type	Pressurized
Capacity, Liters	113,4
Lub oil pressure (min), bar	0,24
 Wet sump with filler and disptick 	
♦ Lubrication oil filters	
Oil cooler with separate filter header	

Fuel Consumption

liters per hour	%110 Load	203 L
	%100 Load	175 L
	%75 Load	132 L
	%50 Load	88 L
grams per kWh	%110 Load	222 g/kWh
	%100 Load	214 g/kWh
	%75 Load	213 g/kWh
	%50 Load	213 g/kWh

Electrical System

Alternator	24 Volt with integral regulator
Starter motor (DC)	24 Volt
Starter motor power	7,5 kW
· High coolant temperature switch	
Low oil pressure switch	

Model	Standby kW		Prime kW	
Model	Gross	Net	Gross	Net
4006-23TAG3A	786	760	705	679

K.U.N.Z. Handels-&Produktions GmbH

<u>Headquarter</u>

Oskar-von-Miller-Strasse 29 68309 Mannheim, Deutschland Tel. : +49 621 - 76 217 733 Faks: +49 621 - 76 217 734

U.K. Branch

1 Canada Square Canary Wharf, Floor 37 London, United Kingdom Tel. : +44 (0) 20 7718 0185 Faks: +44 (0) 20 7718 0001

Turkey Branch

Mansuroglu Mh. 295/2 Sk. Ege Sun Plaza A Blok No:1 K:6 D:652 Bayraklı, 35535 İzmir Telefax. : +90 232 461 66 91

Radiator supplied loose incorporating air to air charge cooler
 System designed for ambients up to 50°C





Alternator Technical Data

Manufacturer	STAMFORD
Model	HCI634H
Туре	4-Poles, Rotating Field, Brushless
Standby power at rated voltage, kV.	A 1010
Efficiency, %	94,7
Power factor	0.8
Phase	3
Frequency, Hz	50
Speed, Rpm	1500
Voltage, V	380/415
Excitation	Self excited
Stator windings	2/3 Pitch factor
Regulation	AVR, Auto Voltage Regulator
Voltage Regulator	MX321
Voltage Regulation, %	± 0,5
R.F.I Suppression	BS EN 61000-6-2,BS EN 61000-6-4
	VDE0875G, VDE 0875N
Waveform distortion	No Load <1.5% Non distorting balar
Rotor	Dynamic balanced
Overspeed, Rpm	2250
Short circuit current	< 300%
TIF	Less than 50
Insultion class	Н
Construction	Single bearing, direct coupled
Coupling	Flexible
Stator winding	Double layer concentric
Connection	WYE
Protection class	IP23
Cooling air volume,m3 / sec	1,614

Winding&Electrical Performance

All generator stators are wound to 2/3 pitch. This eliminates triplen harmonics on the voltage waveform and is found to be the optimum design for trouble-free supply of non-linear loads. The 2/3 pitch design avoid sexcessive neutral currents sometimes seen with higher winding pitches, when in parallel with the mains. A fully connected damper winding reduces oscillations during paralelling. This winding, with the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion.

Quaility Assurance

Generators are manufactured using production procedures having a quality assurance level to BS EN ISO 9001.

Optional Equipment

Power factor controller
♦ Manual Voltage Regulator
♦ Excitation loss module
 Quadrature Droop kit for Parallel Operation
♦ Winding Protection Thermistors
♦ Temperature Indicaiton RTD's
♦ Air filters
♦ Anti condensation heaters

Terminals&Terminal Box

Diode Failure unit

Standard generators feature a main stator with 6 ends brought out to
4 the terminals, which are mounted on the frame at the non-drive end
of the generator. A sheet steel terminal box contains the AVR and
unced provides ample space for the customers wiring and gland
arrangements.It has removable panels for easy access.

Shaft&Keys

All generator rotors are dynamically balanced to better than BS6861 :Part 1 Grade 2.5 for minimum vibration in operation. Two bearing generators are balanced with a half key.

Insulation / Impregnation

The insulation system is class 'H'

All wound components are impregnated with materials and processes designed specifically to provide the high build required for static windings and the high mechanical strength required for rotating components.

Standards

Newage Stamford industrial generators meet the requirements of BS EN 60034 and the relevent section of other international standards such as BS5000,VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359 Other standards and certifications can be considered on request

Model	Standby		Prime	
	kVA	kW	kVA	kW
НСІ634Н	1010	808	940	752

K.U.N.Z. Handels-&Produktions GmbH

Headquarter

Oskar-von-Miller-Strasse 29 68309 Mannheim, Deutschland Tel.: +49 621 - 76 217 733 Faks: +49 621 - 76 217 734

U.K. Branch

1 Canada Square Canary Wharf, Floor 37 London, United Kingdom Tel.: +44 (0) 20 7718 0185 Faks: +44 (0) 20 7718 0001

Turkey Branch

Mansuroglu Mh. 295/2 Sk. Ege Sun Plaza A Blok No:1 K:6 D:652 Bayraklı, 35535 İzmir Telefax. :+90 232 461 66 91

Truly Global, Fully Reliable





Deepsea 7320 Control System Description

- ♦ Deepsea 7320 is an Auto Mains(Utility) Failure Control module.
- The module is used to monitor a mains supply and automaticlly start a standby generator set.
- The module can also monitor an extensive number of engine parameters and it can display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts.
- Selected timers and alarms can be altered by the user from the front panel.
- * Alterations to the system are made using the 810 interface and a PC and it also provides real time diagnostic facilities

Specification DC SUPPLY

Continuous Voltage Rating: 8 V to 35 V

Maximum Operating Current: 340 mA at 12 V, 160 mA at 24 V Maximum Standby Current: 160 mA at 12 V, 80 mA at 24 V

Charge Fail/Excitation Range: 0 V to 35 V

MAINS(UTILITY) & GENERATOR

15 V - 333 V AC (L-N) Voltage Range: Frequency Range: 3,5 Hz to 75 Hz

OUTPUTS

Output A (Fuel): 15 A DC at supply voltage Output B (Start): 15 A DC at supply voltage Output C & D : 8 A 250 V (Volt free)

Input Functions display on LCD

Generator Volts	Volts L1-N, L2-N, L3-N
Generator Volts	Volts L1-L2, L2-L3, L3-L1
Generator Amps	Amps L1, L2, L3
Generator Frequency	Hz
Mains Volts	Volts L1-N, L2-N, L3-N
Mains Volts	Volts L1-L2, L2-L3, L3-L1
Mains Frequency	Hz
Engine Speed	RPM
Plant Battery Volts	Volts
Engine Hours Run	Hour
Generator total power	kVA L1, L2, L3,total
Generator total power	kW L1, L2, L3,total
Generator power factor	Cosφ L1, L2, L3,total

Features

4-Line back-lit LCD text display and five key menu navigation LED and LCD alarm indication

9 configurable inputs and 8 configurable outputs

Configurable timers, alarms and event log (250)

Fuel usage monitor and low fuel alarms

Charge alternator failure alarm

Manual speed and manual fuel pump control

Engine exerciser and "Protections disabled" feature

kW overload protection

Power monitoring (kW, h, kV Ar, kv Ah, kV Arh)

Load switching (load shedding and dummy load outputs)

Automatic load transfer and unbalanced load protection

Independent Earth Fault trip

Support for up to three remote display units and USB connectivity

Configurable display languages

Remote SCADA monitoring

User selectable RS232 and RS485 communications

SMS messaging (external modem required)

Additional display screens to help with modem diagnostics

Alarm Channels

Under/over generator voltage Over-current

Under/over generator frequency

Under/over speed Charge fail Emergency stop

Low oil pressure High engine temperature

Fail to start

Low/high DC battery voltage

Reverse power

Generator phase rotation error

Generator short-circuit protection

Loss of speed sensing signal Mains out of limits

Optional Input Functions

Engine Oil pressure	kPa	
Fuel level	%	
Engine Temperature	°C	

K.U.N.Z. Handels-&Produktions GmbH

Headquarter

Oskar-von-Miller-Strasse 29 68309 Mannheim, Deutschland Tel.: +49 621 - 76 217 733 Faks: +49 621 - 76 217 734

U.K. Branch

1 Canada Square Canary Wharf, Floor 37 London, United Kingdom Tel. : +44 (0) 20 7718 0185 Faks: +44 (0) 20 7718 0001

Turkey Branch

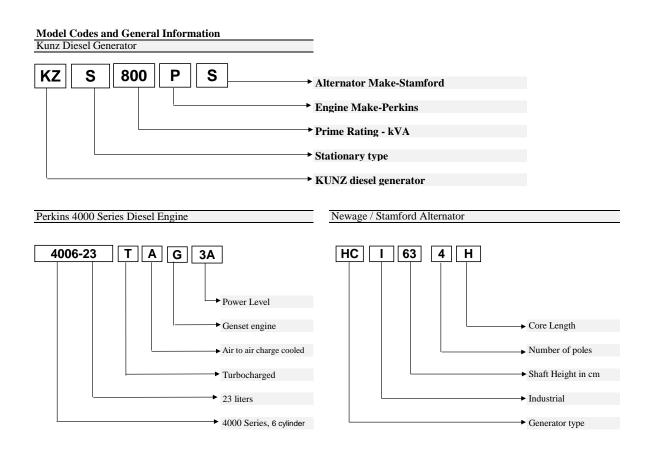
Mansuroglu Mh. 295/2 Sk. Ege Sun Plaza A Blok No:1 K:6 D:652 Bayraklı, 35535 Telefax. : +90 232 461 66 91

Truly Global, Fully Reliable



KZS800PS

Prime 811 kVA **Diesel Generating Sets**



K.U.N.Z. Handels-&Produktions GmbH

<u>Headquarter</u> Oskar-von-Miller-Strasse 29 68309 Mannheim, Deutschland Tel.: +49 621 - 76 217 733 Faks: +49 621 - 76 217 734

<u>U.K. Branch</u> 1 Canada Square Canary Wharf, Floor 37 London, United Kingdom Tel. : +44 (0) 20 7718 0185 Faks: +44 (0) 20 7718 0001

Turkey Branch Mansuroglu Mh. 295/2 Sk. Ege Sun Plaza A Blok No:1 K:6 D:652 Bayraklı, 35535 İzmir

Telefax. : +90 232 461 66 91