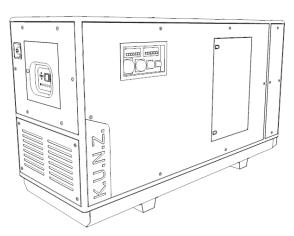
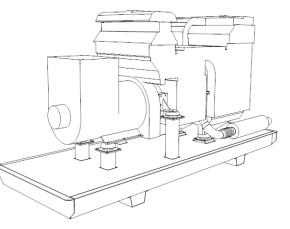


KZS65PS

Handels- & Produktions GmbH

Prime 66 kVA **Diesel Generating Sets**





Voltago	Prime*		Standby*		Amnono	
Voltage	kVA	kW	kVA	kW	Ampere	
380-415	66	52,8	73	58,4	92	

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.

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.

Optional Features

Soundproof canopy

* Remote type radiator

External type fuel tank

* Residential silencer

Automatic fuel transfer system

* Road trailer

Air start

 Job-site trailer * Protection circuit breaker

Base fuel tank

* Container type enclosers

* Automatic load transfer panel

· Automatic syncronization and power sharing systems

Standard Generator Features

- * AMF, Automatic mains failure unit
- * Heavy duty type, 4 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

Dimensions & Weight

Open Type	Dry Weigt kg	Length mm	Width mm	Height mm	Tank Capacity L
KZS65PS	1100	1800	850	1550	201
Sound	Dry Weigt	Length	Width	Height	Tank Capacity
Attenuated	kg	mm	mm	mm	L
KZS65PS	1550	2700	1000	1850	321

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

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Standby Rating





Prime 66 kVA **Diesel Generating Sets**

Engine Technical Data

Manufacturer	PERKINS
Model	1104A-44TG1
Туре	4 cycle, water-cooled
Number of cylinders	4
Cylinder arrangement	Vertical in-line
Displacement, Liters	4,4
Bore X Stroke, mm	105 X 127
Compression Ratio	17.25:1
Combustion System	Direct injection
Aspiration	Turbocharged
Rotation	Clockwise viewed from front
Gross engine power, kWb	65,6
Fan Power, kWm	1,3
BMEP gross, bar	11,93
Combustion air flow, m3 / min	4,2
Exhaust gas temp.(after turbo), °C	550
Exhaust gas flow (after turbo),m3 / n	11,4
Mean piston speed, m / s	6.35

Cooling System

Туре	Tropical, heavy duty type
Ambient temperature, °C	50
Engine&Radiator coolant capacity	13
Pressure cap setting, kPa	107
* Thermostatically-controlled system	n with belt driven circulating
pump and pusher fan	
* Mounted radiator piping and guard	ls

Lubrication System

Туре	Pressurized
Capacity, Liters	8
Lub oil pressure (min), kPa	415-470
 Wet sump with filler and dipstick 	
Spin-on full-flow lub oil filter	

Fuel System

Type of injection system	Direct injection
Fuel atomiser	Multi-hole
Fuel injection Pump	Rotary
Delivery/hour at 1500rev/min, Lt	120-150
Governor type	Electronic, Woodward LCG2
* Electronic governor speed control	to ISO8528-G2
 Rotary type pump 	
 Ecoplus fuel filter 	

Fuel Consumption

liters per hour	%110 Load	16,5 L	
	%100 Load	14,8 L	
	%75 Load	11,2 L	
	%50 Load	8.0 L	
grams per kWh	%110 Load	207 g/kWh	
	%100 Load	208 g/kWh	
	%75 Load	209 g/kWh	
	%50 Load	224 g/kWh	

Electrical System

Alternator	12 Volt, 65 Amp
Starter motor (DC)	12 Volt
Starter motor power	3 kW
* Oil pressure and coolant temperate	are switches
*12 volt shut off solenoid energised	to run

* Glow plug cold start aid and heater/starter switch

Model	Standby kW		Prime kW	
Widdel	Gross	Net	Gross	Net
1104A-44TG1	65,6	64,3	59,6	58,4

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KZS65PS

Prime 66 kVA **Diesel Generating Sets**

Alternator Technical Data

Manufacturer	STAMFORD
Model	UCI224F
Туре	4-Poles, Rotating Field, Brushless
Standby power at rated voltage, kV	A 80
Efficiency, %	90
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	SX460
Voltage Regulation, %	± 1.5
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 balan
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	0.216

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 quaility assurance level to BS EN ISO 9001.

Optional Equipment

* Optional Permanent Magnet Generator (PMG) provides an isolated
power supply to the excitation control system
 Anti Condensation Heaters
 Air Filters
 Temperature Indication RTD's
 Winding Protection Thermistors
 Quadrature Droop kit for Parallel Operation
SX440 AVR with 1% Regulation and 2 Phase Sensing
SX421 AVR with 3 Phase Sensing and improved Regulation 0.5%
 MX341 (PMG) 1% Regulation with 2 Phase Sensing
* MX321 (PMG) with 3 Phase Sensing and improved Regulation 0.5%
Terminals&Terminal Box

Standard generators feature a main stator with 6 ends brought out to 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 ced 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
UCI224F	80	64	72,5	58

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Prime 66 kVA **Diesel Generating Sets**

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

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

15 A DC at supply voltage

15 A DC at supply voltage 8 A 250 V (Volt free)

OUTPUTS

Output A (Fuel): Output B (Start): Output C & D :

Input Functions display on LCD

Volts L1-N, L2-N, L3-N
Volts L1-L2, L2-L3, L3-L1
Amps L1, L2, L3
Hz
Volts L1-N, L2-N, L3-N
Volts L1-L2, L2-L3, L3-L1
Hz
RPM
Volts
Hour
kVA L1, L2, L3,total
kW L1, L2, L3,total
Cos

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 A h, kV Ar h)			
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

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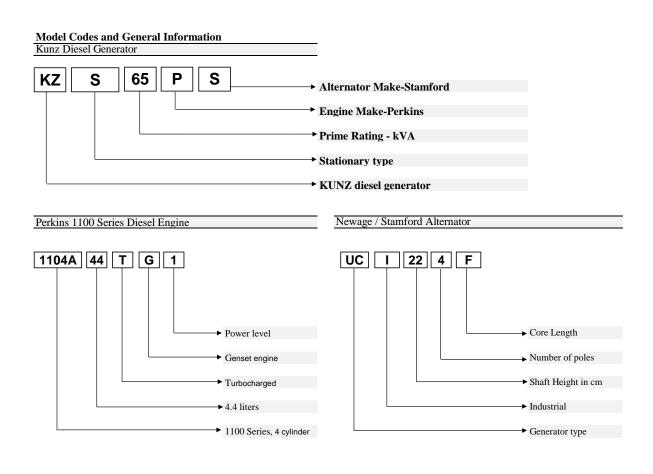
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