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Kubota®



20KVA Technical Specification

Generator Model		PEKL-20
KVA/KW (Prime)		20KVA / 16KW
KVA/KW (Standby)		22KVA / 17.6KW
Frequency / RPM		50 Hz / 1500
Voltage / No. of Phase		415 / 3
Rated Current (Amps)		27.8
Over Load Capacity		10 % over Load for 1 Hours in each 12 Hour of Operation
Fuel Tank Capacity (liters)		100
Acoustic Enclosure Dimensions L X W X H (mm) including Silencer		1900 x 900 x 1350
Gross Weight (Kg)(Approx)		950
Engine		
Engine Model		G20-II
No. Of Cylinder		3 Cylinder
Engine Cooling Type		Water Cooled
Bore		91 mm
Stroke		110 mm
Swept volume		2.15 litre
Aspiration		Naturally Aspirated
Maximum/Rated Power @ rpm		24.79 HP
Max. operational speed		1500 RPM
Engine Maximum air flow		93 kg/hr.
Compression Ratio		17.5:1
Lub Oil Sump Capacity		6 litre
Fuel injection Pump - Supplier		Bosch
Fuel injector - Supplier		Bosch
Starter Motor		2.5 KW
Charging Alternator		23 AMP
Stop Control		Solenoid
Air Cleaner Type		Dry
Heat Rejection Rate		19.5 KW/hr
System Pressure		0.9 Bar
Electrical System		12 V
NO. of Battery		1
Battery Capacity		88 AH
Alternator		
Alternator Make	Stamford	Leroy-somer
Alternator Model	S0L2-G1	LSAP 40 H
Volage	415 Vol / 230 Vol	
Frequency	50Hz	
Class of Insulation	Class H	
Voltage Regulation	± 1%	
Power Factor	0.8	
Pole	4 Pole	
Voltage Regulation	AVR (Automatic Voltage Regulator)	
IP Rating	IP 23	
Control Panel		
Battery Charger	12 VDC, Automatic Battery Charger	
Controller	Deep Sea 4520 MK II	

DG CONTROL PANEL

▶ Operating Features

- Microprocessor based digital controller
- Accurate LCD display
- Local Start/Stop
- Remote Start/Stop
- Generator breaker control
- Easily Accessible through Fascia
- Flexibility for selecting Manual, Auto operations
- Easily Convertible AMF by giving Mains Fail Signal

▶ Metering

Engine Parameters:

- Engine Speed
- Lube Oil pressure
- Coolant temperature
- Engine Running Hour
- Engine Battery voltage
- Running status
- Fuel level in Percentage
- Event Log with date and time

Electrical Parameter

- Generator Voltage (Ph-Ph)
- Generator Voltage (Ph-N)
- Generator Current (R,Y,B)
- Generator Apparent power (kVA)
- Generator active power(kW)
- Generator reactive power (kVA_r)
- Generator Power Factor
- Generator Frequency (Hz)
- Cumulative Power Consumption in kWh
- Cumulative Power Consumption in kVAh
- Cumulative Power Consumption in kVA_rh
- Control Supply Voltage

▶ Protection

Engine

- High Water Temperature
- Low oil pressure
- Low Fuel Level
- Over Speed
- Engine Fails to Start

Electrical

- Generator under Voltage (ANSI-27)
- Generator over Voltage (ANSI-59)
- Generator under Frequency (ANSI-81L)
- Generator over Frequency (ANSI-81H)
- Generator over Current (ANSI-51)
- Control Supply under Voltage
- Control Supply over Voltage
- Phase Reversal
- Unbalanced Load

▶ Controller

The DSE 4520 MKII Is A Compact Auto Mains (utility) Failure Control Module That Has Been Developed To Provide An Outstanding Range Of Features Within A Compact Enclosure.

The Module Can Be Configured For Use As An Auto Start Control Module.



▶ Controller Feature

- User-friendly interface and backlite full graphics LCD
- Battery voltage monitoring & reverse protection to aux supply
- 7/9 configurable analogue/digital inputs
- Auto, Manual and Remote Start/Stop Operation
- Island Operation
- Automatic Mains Failure Function
- CANbus Engine interface for communication
- Log with latest 100 events
- Fully configurable via PC using USB, RS485 communication
- DC Battery supply voltage range 8 to 32V
- -20 to 65 °C operating temperature range
- Ip65 Protection class with gasket
- LCD alarm indication
- Power save mode
- 7 configurable Digital output

▶ Electrical Specification

- Supply Voltage Range: Nominal Voltage - 12/24 V DC
- Cranking drop out period: 50 ms
- Maximum reverse voltage protection: -32 V DC
- Measurement accuracy (battery voltage): ±1 % Full scale
- Resolution: 0.1 V
- Maximum current consumption ~200 mA
- Measurement accuracy (battery voltage) - ±1 % full scale

▶ Environmental Specification

- Operating Temp: -20 to 65°C in compliance with 60068-2-1, 2
- Vibration: 2G in X, Y and Z axes for 8 to 500Hz in compliance with IEC 60068-2-6
- Shock: 15 g for 11 ms in compliance with IEC 60068-2-27
- Humidity: 0 to 95% RH in compliance with IEC 60068-2-78
- Protection Degree: IP65 Protection class with gasket in compliance with IEC60529
- EMI/EMC in compliance with IEC 61000-6-2, 4

▶ Approvals

- CE Compliant
- UL/cUL Recognized to UL/ulc6200:2019 1st edition



60+
of Legacy

5GW+
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Globally Certified

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Factories

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