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30KVA Technical Specification

Generator Model		PEKL-30
KVA/KW (Prime)		30KVA / 24KW
KVA/KW (Standby)		33KVA / 26.4 KW
Frequency / RPM		50 Hz / 1500
Voltage / No. of Phase		415 / 3
Rated Current (Amps)		42
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		G30-II
No. Of Cylinder		3 Cylinder
Engine Cooling Type		Water Cooled
Bore		91 mm
Stroke		110 mm
Swept volume		2.15 litre
Aspiration		(TCI)
Maximum/Rated Power @ rpm		41.81 HP
Max. operational speed		1500 RPM
Engine Maximum air flow		148.7 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		23AMP
Stop Control		Solenoid
Air Cleaner Type		Dry
Heat Rejection Rate		30.5 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-P1	LSAP 42.3 C
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 (kVAr)
- Generator Power Factor
- Generator Frequency (Hz)
- Cumulative Power Consumption in kWh
- Cumulative Power Consumption in kVAh
- Cumulative Power Consumption in kVArh
- 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): $\pm 1\%$ Full scale
- Resolution: 0.1 V
- Maximum current consumption ~ 200 mA
- Measurement accuracy (battery voltage) - $\pm 1\%$ 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



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Factories

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