

GENERATOR MODEL: P 20

Frequency/Speed - Voltage	50HZ/1500RPM-230/400V	
Prime Power	20 KVA	16 KW
Standby Power	22 KVA	17.6KW

Features:

- **Warranty: 1 year or 1000 hours.**
- **Low fuel shutdown safety.**
- **24/7 after sales support.**
- **Generator made by OEM Perkins-UK**
- **Perkins as the world's leading power Power manufacturer science 1932.**
- **Advance digital control system, Long service life, Easy to Operate, Low Fuel consumption, Anti vibrating Isolators.**
- **Automatic start (optional) ecofriendly.**
- **Easy and economical availability of Spares.**



Engine

Perkins-UK, Model 404A-22G, in accordance to ISO3046, ISO 8528, DIN 6271



Alternator

Leroy Somer-France / Meccalte-UK Stamford UK Complying to the following Norms: CEE/CE12/3/EN60034-1 / IEC34-1/VDE



Control Panel

Deep Sea DSE-4520, Made in UK, Complying to the norms: Comply to the norms BS EN 61000, BS EN 60950, BS EN 60068



Sound Proof Canopy

Durable and Weather proof with maximum service Accessibility and minimum Foot Prints



Base Frame

Iron frame with Anti-Vibration pads & Built in fuel tank

PERKINS ENGINE TECHNICAL DATA

MODEL: 404A-22G



STRUCTURE

Number Of Cylinders	4
Engine Build	In Line
Bore	84 mm
Stroke	100 mm
Displacement	2.2 L
Compression Ratio	23.3:1
Aspiration	Natural
Cooling	Water Cooled



FUEL

Fuel Tank	Built in fuel tank for at least 10 hours operation @ full load
Fuel System	75 % Direct Injection
Fuel Recommended	N° Diesel
	1500 RPM

Delivery Flow Rate (l/hr)

Fuel Consumption	
100% Load (g/kwh-L/hr)	5.3
75% Load (g/kwh-L/hr)	4
50% Load (g/kwh-L/hr)	2.9



COOLING SYSTEM

Engine Coolant Capacity	7L
Air Flow Radiator	490 l/s
Radiator with 50 degree ambient	
Cooling Package & Air Cleaner	
Thermostatically-Cntroled	



AIR INTAKE

Air Intake Engine (Clean Filter/Dirty)	3 / 6.4 KPa
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EXHAUST SYSTEM

Exhaust Gas Temperature	445°C
Exhaust Gas Flow (Prime)	60.61/s
Maximum Exhaust System Back Pressure	10.2 Kpa
Stainless Steel Exhaust Flex	



**DC SYSTEM
STARTING/CHARGING**

Cranking Battery Voltage	12 V
Battery Charging Alternator	65 A
DC Voltage Monitoring Via	



**HEAT REJECTION
(PRIME)**

Radiated Heat to Ambient	3.5 KW
Heat Rejection to Coolant	17 KW
Heat Rejection to Exhaust	14 KW
Heat Rejection to intercooler	0

LUBE SYSTEM

Lubricating Capacity: 10.6 LTRS

GOVERNOR

Mechanical

ALTERNATOR TECHNICAL DATA



STRUCTURE

Insulation System	Class H
Winding Pitch	2/3 to Minimize Harmonics effects
Number of Poles	4
Number of Bearings	Single Bearing
RPM	1500 RPM
Power Factor	0.8/1
Regulation	± 1%
Frequency	50 Hz
Voltage Range	380-415 / 220-240
IP Rating (Protection)	Ip23

Synchronous, 3/1 phase, Brushless & Self Excited

NOTE: Alternator Brand Subject to Availability.

CONTROL MODULE

DEAP SEA MODEL: DSE 4520



INDICATIONS

- ✔ Operating Hours
- ✔ 3 Phase Generator Voltage Sensing & Monitoring
- ✔ Current Protection & Monitoring
- ✔ Power Measurement (kW, kVA, kVA_r, kWh, kVAh, kVA_rh, pf)
- ✔ Frequency Monitoring (Hz)
- ✔ Oil Pressure/Coolant Temperature
- ✔ Battery Voltage Monitoring (DC)
- ✔ Alarm Acknowledge



CONTROL

- ✔ Engine Cool Down Timer
- ✔ Emergency Stop Push button/ Alarm Acknowledge
- ✔ Warm-up Timer
- ✔ Load Switching Timer
- ✔ Engine Cycle Crank



WARNING & SHUTDOWN ALARMS

- ✔ Generator Over/Under Voltage & Frequency
- ✔ Crank Disconnect (Failure to Start)
- ✔ Under/Over Speed
- ✔ Over Current
- ✔ Low Oil Pressure
- ✔ High Water Temperature
- ✔ Low Fuel Level
- ✔ Low Water Level



FEATURES

- ✔ User Friendly
- ✔ Compatible With CAN Engines
- ✔ License Free Software
- ✔ Largest Backlit Icon Display In Its Class
- ✔ Fully Configured Via The Fascia Or Pc Using Usb
- ✔ Efficient Power Save Mode

AUTHORIZED DEALER: