



Image for guidance purposes.

TECHNICALS SPECIFICATIONS

Model:

AKD-1500

Gen set composed of engine and alternator perfectly assembled and fitted in a practical tubular chasis, that is adding great strenght and versatility.

STANDBY POWER (LTP):

14,5 kVA

(LTP: "Limited Time Power" norma ISO 8528-1)

Engine

| | |
|-----------------------|-----------------------|
| Make | Kohler |
| Model | KD477-2 |
| Fuel | Diesel |
| Start | Automatic main failed |
| Cooling system | Air |

| | |
|-------------------------------|-------|
| Mechanical effect power (kWm) | 14,9 |
| Diameter x stroke (mm) | 90x75 |
| Compression ratio | 19:1 |
| Series regulator | M |
| No. cylinders | 2 |
| Displacement (cm³) | 954 |
| Fuel consumption 100% (L/H) | 4 |
| Oil tank capacity (L) | 3 |
| Máx. oil consumption (kg/h) | 0,011 |
| Battery recommended V/Ah | 12/19 |
| Fuel tank capacity (L) | 15 |

Alternator

| | |
|----------------------|---------|
| Voltage (V) | 400/230 |
| Frequency (Hz) | 50 |
| R.p.m. | 3000 |
| No. poles | 2 |
| Protection degree IP | 21 |
| Insulation | H |

*Series regulator **M**: Mechanical.

Genset general characteristics

| | |
|--------------------------|---------|
| Prime Power PRP (kVA/kW) | - |
| Standby power LTP (kVA) | 14,5 |
| Frequency (Hz) | 50 |
| R.p.m. | 3000 |
| Voltage (V) | 400/230 |
| Cos Φ | 0,8 |

Dimensions and weight

| | |
|---|-------------|
| Dimensions (mm) Lenght x Width x Height | 950x640x715 |
| Weight (kg) | 198 |

OPTIONS

Control panel with voltmeter & hours counter or ammeter.

Control panel equipped with DSE 3110 for remote start

Transport kit with wheel and handles

DSE 6120 MKIII AUTOMATIC CONTROL PANEL WITH AMF/ATS PANEL

V2

PROTECTION, DISTRIBUTION AND AUTOMATIC CONTROL panel which starts the generator set when it detects a mains failure and stops it when the mains is restored with the control unit DSE 6120 MKIII. It also starts and stops the group manually via a pushbutton or remote start-up by contact. It incorporates change over switch. The entire assembly is in a steel enclosure separated from the gen set.



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It has the following:

1. EMERGENCY STOP PUSHBUTTON

2. PROTECTIONS:

Magnetothermal switch (preheating resist.) 2P (16 A)

Protection fuses for control module

3. BATTERY CHARGER

V1 PREWIRED VERSION FOR AMF

V2 GENSETS WITH AMF/ATS PANEL AND 4 POLE CIRCUIT BREAKER

V3 GENSET WITH AMF CONTROL PANEL BUT WITHOUT ATS PANEL AND SEPARATED ATS PANEL

DSE 6120 MKIII AUTOMATIC CONTROL PANEL WITH AMF/ATS PANEL

V2

4. DSE 6120 MKIII PROTECTION CONTROL MODULE.

LCD SCREEN:

It is equipped with a digital LCD screen, which makes it easy to read the information concerning the ENGINE, ALTERNATOR and LOAD available in several languages. The readings that can be obtained are:

| ENGINE: | ALTERNATOR AND CHARGE: | MAINS: |
|-----------------------------|---|---|
| Coolant temperature | Voltages between phases and between phases and neutral. | Frequency |
| Oil pressure | Intensities | Voltages between phases and neutral (L1-N, L2-N, L3-N). |
| Turning speed (rpm) | Frequency | Voltages between phases and (L1-L2, L2-L3, L1-L3). |
| Fuel level | Active Power (kW) | Active Power (kW) |
| Battery voltage | Reactive Power (kVAr) | Reactive Power (kVAr) |
| Battery alternator voltage. | Apparent Power (kVA) | Apparent Power (kVA) |
| Operating hours | Cos phi | Cos phi |
| Number of start-ups | Active energy meter (kW-h) | |

CONTROL OF THE SET:

STARTS and STOPS the set AUTOMATICALLY when mains failure is detected and when it is restored, respectively.

It can also operate MANUALLY a REMOTE STAR.

Breaker control via fascia buttons.

PROTECTION OF THE ENGINE AND ALTERNATOR, WITH THE ALARMS ACTIVATED:

| ENGINE: | ALTERNATOR: | MAINS: |
|---|-------------------------------|------------------------|
| Low oil pressure | Low and High Voltage | Low and High Voltage |
| High coolant temperature | Low and High Frequency | Low and High Frequency |
| Low and High battery Voltage. | Overload due to Intensity (A) | |
| Failure of the alternator to charge batteries | Power Overload (KW) | |
| Low fuel level | Low load | |

Engine maintenance alarms for fuel filter, air filter and oil filter

OTHER CHARACTERISTICS:

| | | |
|--|---|---|
| The real-time clock records the last 100 events. | USB connectivity | ALTERNATIVE CONFIGURATIONS, which open up the working possibilities |
| "DSE Net" for the connection of expansion modules. The possibilities of adapting the operation of the generator sets to the different current applications are expanded. | Fully configurable via software and PC. | DATA LOGGING. Option to display, either graphically or in editable tables, information on the genset operation. |
| Extensive number of configurable inputs and outputs. | Communication via USB cable for remote control | Sleep Mode |
| Configurable alarms and timers. | Programmable clock with multiple maintenance events which can be configured for optimal motor functioning. Weekly and/or monthly programming for up to 8 startups and shutdowns per week. | Option to inhibit start-up by external signal during a specific period. |
| Internal PLC editor | CAN, MPU & alternator speed sensing (selectable depending on engine type). | Five key menu navigation |
| Fuel and start outputs configurable when using CAN. | Customisable power up text and images | Backed-up real time clock. |
| Tier 4 ECO engine support including exhaust fluids & filters | | |

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