

Perkins 850-1002 kVA

50 Hz Diesel Generator Set



Power



Images are for illustration purpose only

ENGINE

PERKINS heavy duty diesel engine
4-cycle, water cooled, Turbocharged,
direct injection

12/24 Volt starter and charge
alternator with battery, rack and
cables

Replaceable air, fuel and oil filter

Industrial type radiator

Flexible fuel piping

Oil sump drain valve and extension
pipe

Industrial/Residential type exhaust
silencer.

Jacket Water Heater

Diesel gen-set maintenance and
operating instructions and electrical
circuit diagram

ALTERNATOR

Brushless, single bearing, 4-pole
alternator coupled with flexible disc
coupling

H type insulation class

IP 23 protection

Self exciting

Electronic AVR

CONTROL PANEL

DeepSea mains sensing or remote
start control module

Emergency stop push button

Output circuit breaker

Static battery charger

Ready for remote monitoring

CANOPY

Modular type sound-proof canopy

Built from galvanized steel and epoxy,
polyester powder painted

Lockable doors on both sides of
canopy designed for easy access to
essential replacement parts

Emergency stop push button

Control Panel viewing window

Bunded base fuel tank (Optional)

Forklift Pockets (Optional)

Power cable entry with a gland plate

Standby Power

Applicable for supplying
power to varying electrical
load for the duration of
power interruption of a
reliable utility source,
Overload is not allowed.

Prime Power

The maximum power
which a generating set is
capable of delivering con-
tinuously whilst supplying
a variable electrical load.
Average load should be
70%.The generator can
be overloaded 10% for 1
hour per 12 hrs.

Base Power

Continuous power rating
is used in applications
where supplying power is
at a constant 100% load
for an unlimited number
of hours each year.



EA Power Systems reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice

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Registered in England & Wales No:11023250



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50 Hz Diesel Generator Set



Power

| MODEL | | EAP850 | EAP900 | EAP1002 | |
|------------|--|----------|--------------------|--------------------|--------------------|
| OUTPUT | Standby | kVA | 850 | 900 | 1002 |
| | | kW | 680 | 720 | 802 |
| | Prime | kVA | 773 | 800 | 911 |
| | | kW | 618 | 640 | 729 |
| ENGINE | Engine | | PERKINS | PERKINS | PERKINS |
| | Model | | 2806A-E18TTAG5 | 4006-23TAG3A | 4008-TAG1A |
| | Configuration | | INLINE | INLINE | INLINE |
| | No. of Cylinders | | 6 | 6 | 8 |
| | Speed | rpm | 1500 | 1500 | 1500 |
| | Displacement | l | 18,1 | 22,92 | 30,56 |
| | Bore x Stroke | mm | 145 x 183 | 160 x 190 | 160 x 190 |
| | Compression Ratio | | 14 : 1 | 13,6 : 1 | 13,6 : 1 |
| | Aspiration | | Turbocharged | Turbocharged | Turbocharged |
| | Governor Type | | Electronic | Electronic | Electronic |
| | Cooling | | Water | Water | Water |
| | Coolant Capacity | l | 68 | 105 | 149 |
| | Lubrication Oil Capacity | l | 110 | 113,4 | 153 |
| | Fuel Consumption l/h | 100%Load | 162 | 172 | 195 |
| 75% Load | | 118 | 137 | 143 | |
| 50%Load | | 80 | 130 | 98 | |
| ALTERNATOR | Phase | | 3 | 3 | 3 |
| | Pole | | 4 | 4 | 4 |
| | No. of Leads | | 12 | 12 | 12 |
| | Excitation System | | AVR | AVR | AVR |
| | Insulation Class | | H | H | H |
| | IP Protection | | IP23 | IP23 | IP23 |
| | Power Factor | | 0,8 | 0,8 | 0,8 |
| | Frequency | Hz | 50 | 50 | 50 |
| | Voltage | V | 400 | 400 | 400 |
| SIZE | Canopy Set Dimensions (LxWxH) & Weight | mm | 4800 x 1800 x 3115 | 5550 x 2200 x 3310 | 5550 x 2200 x 3310 |
| | | kg | 8701 | 10686 | 12710 |
| | Open Set Dimensions (LxWxH) & Weight | mm | 4290 x 1800 x 2475 | 5300 x 2200 x 2460 | 5300 x 2200 x 2460 |
| | | kg | 7194 | 8931 | 10955 |
| | Fuel Tank Capacity | l | 1704 | 2072 | 2072 |

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CONTROL MODULE

DSE 7 Series Control Module

State of the art, microprocessor controlled

4line, 64 x 132 pixel display LCD display

Automatic mains failure sensing

Front panel manual programming

User friendly setup and button layout

Remote start

Event logging, showing date and time

Stop/Reset, Manual

Displays

Engine Speed (rpm)

Oil pressure

Fuel Level (%)

Coolant temperature

Running Hours

Battery voltage monitoring

Generator Voltage (LL. LN)

Generator Current (L1-L2-L3)

Generator Frequency (Hz)

Generator Load & Power Monitoring (kW. kVA. kVAR.
pf)

Mains Voltage (LL. LN)

Mains Frequency

Generator Set Ready

Mains Ready



Alarms

High coolant temperature

Low Fuel Level

Low oil pressure

Charge failure

Battery Low/High voltage

Fail to start

Fail to stop

High/Low Generator voltage

Generator Over/Under frequency

Generator Over/Under Speed