

Perkins 150-200 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

Datakom 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.



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MODEL		EAP150	EAP165	EAP200	
OUTPUT	Standby	kVA	150	165	200
		kW	120	132	160
	Prime	kVA	135	150	180
		kW	108	120	144
ENGINE	Engine	PERKINS	PERKINS	PERKINS	
	Model	1106A-70TG1	1106A-70TAG2	1106A-70TAG3	
	Configuration	INLINE	INLINE	INLINE	
	No. of Cylinders	6	6	6	
	Speed	rpm	1500	1500	1500
	Displacement	l	7,01	7,01	7,01
	Bore x Stroke	mm	105 x 135	105 x 135	105 x 135
	Compression Ratio		18,2 : 1	16 : 1	16 : 1
	Aspiration		Turbocharged	Turbocharged	Turbocharged
	Governor Type		Mechanical	Mechanical	Mechanical
	Cooling		Water	Water	Water
	Coolant Capacity	l	21	21	21
	Lubrication Oil Capacity	l	18	16,5	16,5
	Fuel Consumption l/h	100%Load	30.2	33.4	41.2
75% Load		22.7	24.7	32	
50%Load		15.9	16.4	20.6	
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	3100 x 1100 x 1850	3100 x 1100 x 1690	3220 x 1100 x 1860
		kg	1822	1900	1976
	Open Set Dimensions (LxWxH) & Weight	mm	2600 x 1100 x 1690	2600 x 1100 x 1690	2600 x 1100 x 1690
		kg	1518	1594	1670
	Fuel Tank Capacity	l	275	275	275

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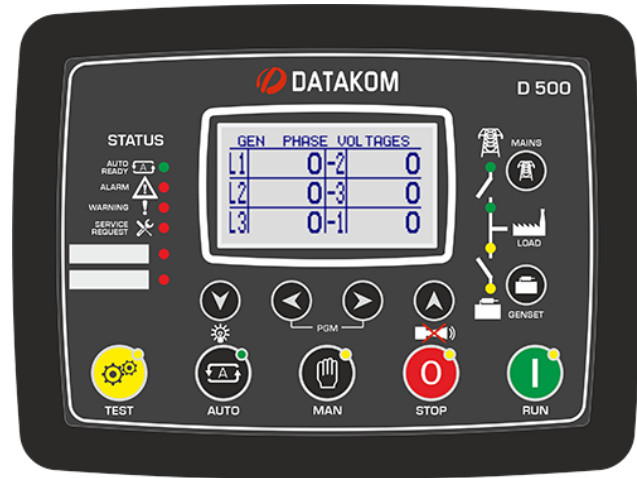
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CONTROL MODULE

- Datakom Smart 500 Control Module
- State of the art, microprocessor controlled
- 4.3" 480x272 pixels color LCD
- 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