

Perkins 1500-1880 kVA

50 Hz Diesel Generator Set



Power



Images are for illustration purpose only

ENGINE

PERKINS heavy duty diesel engine
4-cycle, water cooled, naturally aspirated, 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 continuously 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





MODEL			EAP1500	EAP1650	EAP1880
OUTPUT	Standby	kVA	1500	1656	1880
		kW	1200	1325	1504
	Prime	kVA	1350	1505	1710
		kW	1080	1204	1368
ENGINE	Engine		PERKINS	PERKINS	PERKINS
	Model		4012-46TAG2A	4012-46TAG2A	4012-46TAG3A
	Configuration		V	V	V
	No. of Cylinders		12	12	12
	Speed	rpm	1500	1500	1500
	Displacement	l	45,842	45,842	45,842
	Bore x Stroke	mm	160 x 190	160 x 190	160 x 190
	Compression Ratio		13,6 : 1	13,6 : 1	13,6 : 1
	Aspiration		Natural	Natural	Natural
	Governor Type		Mechanical	Mechanical	Mechanical
	Cooling		Water	Water	Water
	Coolant Capacity	l	210	210	210
	Lubrication Oil Capacity	l	177	177	177
	Fuel Consumption l/h	100%Load	310	301	370
		75% Load	234	237	275
		50%Load	157	162	187
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	7000 x 2438 x 3620	7000 x 2438 x 3620	7000 x 2438 x 3620
		kg	17836	18096	19213
	Open Set Dimensions (LxWxH) & Weight	mm	4800 x 2090 x 2375	4800 x 2090 x 2375	4800 x 2090 x 2375
		kg	13174	10934	11551
	Fuel Tank Capacity	l	2500	2500	3000

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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