

Perkins 660-785 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.



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Registered in England & Wales No:11023250



Perkins 660-785 kVA

50 Hz Diesel Generator Set



Power

MODEL			EAP660	EAP700	EAP785
OUTPUT	Standby	kVA	660	700	785
		kW	528	560	628
	Prime	kVA	600	650	715
		kW	480	520	572
ENGINE	Engine		PERKINS	PERKINS	PERKINS
	Model		2806A-E18TAG1A	2806A-E18TAG2	2806A-E18TAG2
	Configuration		INLINE	INLINE	INLINE
	No. of Cylinders		6	6	6
	Speed	rpm	1500	1500	1500
	Displacement	l	18,1	18,1	18,1
	Bore x Stroke	mm	145 x 183	145 x 183	145 x 183
	Compression Ratio		14,5 : 1	14,5 : 1	14,5 : 1
	Aspiration		Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	Electronic	Electronic
	Cooling		Water	Water	Water
	Coolant Capacity	l	61	61	110
	Lubrication Oil Capacity	l	62	62	72
	Fuel Consumption l/h	100%Load	123	132	195
		75% Load	90	97	191
		50%Load	61	66	196
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	4400 x 1700 x 2860	4400 x 1700 x 2860	4800 x 1800 x 3115
		kg	6298	6440	8701
	Open Set Dimensions (LxWxH) & Weight	mm	3600 x 1700 x 2160	3600 x 1700 x 2160	4290 x 1800 x 2475
		kg	5641	5783	7194
	Fuel Tank Capacity	l	980	980	1704

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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