PERKINS 1385 - 1656 kVA

TECHNICAL SPECIFICATIONS

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.

CONTINUOUS POWER

This rating is appropriate for a generator set paralleled with an infinite bus e.g. a national electrical supply network or grid where the generator set is run at 100% load, 24 hours a day, 365 days a year and any surplice power is exported into the grid.

ENGINE

- PERKINS heavy duty diesel engine
- 4-cycle, water cooled, naturally aspirated
- Direct injection
- 24 Volt starter motor 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
- Residential type exhaust silencer.
- Maintenance free battery
- Jacket Water Heater

ALTERNATOR

- Brushless, single bearing,4-pole alternator coupled with flexible disc coupling
- H type insulation class
- IP 21-23 protection
- Self exciting
- Electronic AVR

CONTROL PANEL

- DSE 7 Series 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

EA Power Systems Ltd.

207 Dominion Rd. LE36QA Leicester United Kingdom

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Registered in England & Wales No:11023250

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	MODEL		EAP1385	EAP1500	EAP1656
OUTPUT	Standby	kVA	1385	1500	1656
		kW	1108	1200	1325
	Prime	kVA	1250	1364	1505
		kW	1000	1092	1204
ENGINE	Engine		PERKINS	PERKINS	PERKINS
	Model		4012 - 46TWG2A	4012 - 46TAG2A	4012 - 46TAG2A
	Configuration		12 - 60˚ V	12 - 60˚ V	12 - 60˚ 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		13:1	13:1	13:1
	Aspiration		Turbocharged		
	Governor Type		Electronic		
	Cooling		Water		
	Coolant Capacity	l	196	196	207
	Lubrication Oil Capacity	l	177	177	177
	Fuel Consumption l/h	100%Load	259	283	310
		75% Load	196	213	234
		50%Load	143	151	157
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	TBA	TBA	TBA
		kg	TBA	TBA	TBA
	Open Set Dimensions (LxWxH) & Weight	mm	5350 x 2200 x 2750	5350 x 2200 x 2750	5350 x 2200 x 2750
		kg	9080	9080	10453
	Fuel Tank Capacity	l	2500	2500	2500

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CONTROL MODULE

Standard Specifications

- 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, Auto, Test, Start, buttons, toggle display button

Displays

- Engine Speed (rpm)
- Oil pressure
- 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 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.

Shut Downs

- Fail to start.
- Emergency stop.
- Low oil pressure.
- High coolant temperature.
- Generator Over/Under frequency.
- Generator Over/Under Speed.
- High/Low Generator voltage

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