UPG-P1700 ₩





POWERED BY









Three phase



water cooled



DIESEL



Battery Charging Alternator

Ratings @ 0.8 PF

VOLTAGE	FREQENCY	PRIME RATING		STAND	D-BY RATING
230-400 V	60 Hz	1710 kva	1368 kw	1880 kva	1504 kw

These ratings are applicable for supplying continuous electrical power (at variable load). There is no annual hours limitation and this genset can supply 10% overload for 1 hour in 12 hours

Stand by

These ratings are applicable for supplying continuous electrical power(at variable load) in the case of emergency power supply. No overload is permitted on the ratings.

The alternator on this model is peak continuous rates (as defined in ISO 8528-5)

Some of the specifications are not standard on all Genset models.

Genset Standard Specification				
Model	UPG-P1700			
Base frame	Heavy duty fabricated steel			
Circuit breaker	ABB 3 pole MCCB(4 pole is optional)			
Engine speed	1800 RPM(60HZ)			
Fuel tank capacity	Not available*			
Air inlet	Mounted air filter			
Induction system	Turbo charged and air to charge cooled			
Combustion system	Direct injection			
Fuel system	Fuel injection pump			
Fuel filter	Split element			
cooling system	Water-cooled			
Electric Equipment	24 v starter motor and 24 v DC alternator and ECM			

* Base tank not recommended for above 800 kva genset for sufficient cooling of diesel

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Genset Model	UPG-P1700
Engine Model	Perkins 4012-46TAG3A
Alternator Model	LSA52.3S5
Controller Model	DSE 7320





Dimension				
Closed type(mm)		Open typ	e(mm)	
Length	9000	Length	4900	
Width	2440	Width	1870	
Height	2790	Height	2310	
Weight(kg)	14800	Weight(kg)	10300	

Engine Data				
Model	Perkins 4012-46TAG3A			
No of cylinder & arrangement	12 - 60° Vee form			
Compression ratio	12.8:1			
Aspiration	Turbo charged			
Bore and stoke(mm)	160*190			
Rotation	Anti-clockwise viewed from flywheel end			
Governing class	ISO 8528-5 G3			
Radiator cooling air flow(m³/sec)	32.4			
	60 Hz			
	Prime	Stand by		
Gross engine power kw(hp)	1348 (1808)	1475 (1978)		
at 50 % Load (I/hr)	162	-		
at 75% Load (I/hr)	237	-		
at 100% Load (I/hr)	301	335		
Boost pressure ratio	3.1	3.4		
Total lubrication system capacity(L)	157.5	157.5		
Total Coolant capacity(L)	233	233		

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Make	Leroy Somer
Model	LSA52.3S5
Insulation class	Н
No of bearing	1
Total harmonic content	<3.5%
Winding pitch	2/3
Ingress Protection	IP23
Overspeed	2250 R.P.M
AVR Model	D510C
Excitation system	AREP
Voltage regulation(steady)	± 0.5%
Short Circuit Capacity	300% (3 In): 10s

Exhaust pipes with Oil and coolant Anti-vibration exhaust heat drain pads





Emergency stop button







Enclosure

SILENT FEATURES:

- Lockable external fuel filling point Internal /External fuel connection External oil drainage

- External coolant drainage
 Air inlet /outlet louvers
 Sound splitters at radiator side (only for 1000 KVA and above) (For 725-880 KVA vertical air discharge)

- aiscnarge) Common earth connection 2 layers white color paint Cooling fan and battery charging alternator fully guarded Engine, radiator, fuel fill and battery can only be reached via lockable access doors

HIGLY CORROSION RESISITANCE CONSTRUCTION

- Carbon steel locks and hinges
- Body made from galvanized steel components (2.0mm) treated with polyester powder coating

TRANSPORTABILITY

- Tested and certified single point lifting facility
- · Forklift legs available

SOUND PRESSURE LEVEL

80 - 85 dBA at 3 meters (standard)

SECURITY AND SAFETY:

- Control panel viewing window in a lockable access door
- Emergency stop push button (red) fixed externally for quick access Cooling fan and battery charging alternator fully guarded Fuel fill and battery can only be reached via lockable access doors
- Exhaust silencing system totally enclosed for operator safety

Control Panel Data			
Make	Deep Sea		
Model	DSE 7320 MKII		



Controller key features

The DSE 7320 is an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

Metering and Alarm indications:

- Generator frequency
 Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressureEngine coolant temperature
- Fuel level (Warning or shutdown) Optional
- Hours run counter Battery volts
 Fail to start/stop
- Emergency stop
 Failed to reach loading voltage/frequency
- Charge fail
 Loss of magnetic pick-up signal Optional
- Low DC voltageCAN diagnostics and CAN fail/error

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FUEL SYSTEM

On Generating Sets up to 700 KVA, the baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

Silencer noise reduction level	60 Hz
dBA	10
Max allowable pressure	60 Hz
Кра	5
Exhaust gas flow m³/min	60 Hz
Prime	312
Standby	336
Exhaust gas temperature °C	60 Hz
Prime	417
Stand by	434
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AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at $\pm 1\%$. Nominal adjustment by means of a trim pot incorporated on the AVR.

MOTOR STARTING

An overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 seconds, when PMG option is fitted.

COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

FACTORY TESTS

The Generating set is load tested before dispatch All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

DOCUMENTATIONS

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding accompanied with the Generator.

QUALITY STANDARDS

Following standards: ISO 8528/1, ISO 3046/1, BS 5514/1.

WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 12 months. Warranty of the equipment is in line with manufacturers warranty terms & conditions.