UPG-P180





POWERED BY









Three phase



water cooled



DIESEL



Battery Charging Alternator

Ratings @ 0.8 PF

VOLTAGE	FREQENCY	PRIME R	ATING	STAND	-BY RATING
230/400 v	50 Hz	150 kva	120 kw	165 kva	132 kw

Prime

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-P180			
Base frame	Heavy duty fabricated steel			
Circuit breaker	ABB 3 pole MCCB.(4 pole is optional)			
Engine speed	1500 RPM(50HZ)			
Fuel tank capacity	230 L			
Air inlet	Mounted air filter			
Induction system	Turbo charged and air to air charge cooled			
Combustion system	Direct injection			
Fuel system	Fuel injection pump			
Fuel filter	Split element			
cooling system	Water-cooled			
Electric Equipment	12 v starter motor and 12 v DC alternator and 12 v shut off solenoid			

All information in this document is substantially correct at time of printing

UPG-P180
Perkins 1106A-70TAG2
TAL 044J
DSE 6120





Dimension				
Closed	type(cm)	Open type	e(cm)	
Length	320	Length	250	
Width	110	Width	77.5	
Height	165	Height	142.5	
Weight(kg)	179	Weight(kg)	163	

	Engine Data	
Model	Perkins 11	06A-70TAG3
No of cylinder & arrangement	6 Verti	cal in line
Compression ratio		16:1
Aspiration	Naturall	y Aspirated
Bore and stroke	105 x	135 mm
Rotation	Anti-clockwise, viewed on flywheel	
Governor	Mechanical	
Radiator cooling air flow(m³/sec)	4.7	
	50 Hz	
	Prime	Stand by
Gross engine power kw(hp)	162.7 (218.1)	180.2 (241.6)
at 50% Load	20.2 L/hr	
at 75% Load	32.0 L/hr	- //
at 100% Load	41.4 L/hr	45.1 L/hr
otal lubrication system capacity	18 L	18 L
Total Coolant capacity	21 L	21 L

Make	Leroy Somer TAL / Equivalent
Model	TAL 044J
Insulation class	Н
No of bearing	1
Total harmonic content	at no load<2%,at linear load<5%
Winding pitch	2/3
Ingress Protection	IP23
Altitude	≤1000m
Overspeed	2250 R.P.M
AVR Model	R120
Excitation system	SHUNT
Voltage regulation(steady)	±1%



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)
- Common earth connection

- powder coated galvanized canopy 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 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 6120		



Controller key features

The DSE DSE 6120 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 pressure
- · Engine coolant temperature
- Hours run counter
 Battery volts
 Fail to start/stop
- Emergency stop
- · Charge fail · Low DC voltage

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.

Max allowable pressure	50 Hz
Кра	6
Exhaust gas flow m³/min	50 Hz
Prime	15.2
Standby	16.3
Exhaust gas temperature °C	50 Hz
Prime	484
Stand by	484

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

FUEL SYSTEM

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.

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