DATA SHEET SPECIFICATION

UPG-P30 😰



POWERED BY



Ratings @ 0.8 PF

VOLTAGE	FREQENCY	PRIME RATING STAN		IE RATING STAND-BY RATING	
230/240 V	50 Hz	30.0 kva	24.0 kw	33.0 kva	26.4 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-P30			
Base frame	Heavy duty fabricated steel			
Circuit breaker	ABB 3 pole MCB (4 pole is optional)			
Engine speed	1500 RPM(50HZ)			
	92 L-closed			
Fuel tank capacity	111 L-open			
Cycle	4 Stroke			
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	12 v starter motor and 12 v DC alternator and 12 v shut off solenoid			

Genset Model UPG-P30 **Engine Model Alternator Model** TAL 042 C DSE 4520 **Controller Model**







Closed	Lype(mm)	imension Open type	(mm)		
Length	2030	Length	1650		
Width	1000	Width	775		
Height	1350	Height	800		
Weight(kg)	850	Weight(kg)	730		

	Eng	ine Data			
Model		Perkins 1103A-33G			
No of cylinder & arrangement	3 vertical in-line				
Compression ratio		19.	25:1		
Displacement / Cubic Capacity		3.3 L			
Aspiration		Naturally Aspirated			
Bore and stoke		105 x 127 mm			
Rotation		Anti-clockwise viewed from front			
Governor		Mechanical			
Radiator cooling air flow(m³/sec)	0.88				
	50 Hz				
		Prime	Stand by		
Gross engine power kw(hp)		28.2 (38)	31.0 (42)		
at 50% Load(l/hr)		3.9	-		
at 75% Load(l/hr)		5.4	-		
at 100% Load(l/hr)		7.9	8.01		
Total lubrication system capacity(L)		7.9	8.3		
Total Coolant capacity(L)		10.2	10.2		
Alternator Data					
Make		Leroy Somer TAL / Equivalent			
Model		TAL 042 C			
Insulation class		Н			
No of bearing		1			
Total harmonic content		at no load<2%, on load<5%			
Winding pitch		2/3			

Winding pitch	2/3	
Ingress Protection	IP23	
Altitude	≤1000m	
Overspeed	2250 R.P.M	
AVR Model	R120	
Excitation system	SHUNT	
Voltage regulation(steady)	±1%	

AREP or PMG Excitation System Available as Optional

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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)

- oischarge) 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 polvester 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 I	Data	DBC Drag See Electronics
Make	Deep Sea	230V L2H 220V 230V L2H 220V 230V L2H 220V 230V L2H 220V 230V L2H 220V 230V L2H 220V
odel	DSE 4520 MKII	0

Controller key features

The DSE 4520 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
- 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 voltage CAN 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.

Max allowable pressure	50 Hz
Кра	8
Exhaust gas flow m∛min	50 Hz
Prime	5.7
Standby	5.8
Exhaust gas temperature °C	50 Hz
Prime	500
Stand by	520

AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at $\pm1\%.$ 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

Compliance with BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528 standards.

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.