DATA SHEET SPECIFICATION



50 Hz

POWERED BY

UPG-P9



Ratings @ 0.8 PF

VOLTAGE	FREQENCY	PRIME RATING		STAND-BY RATING	
230/400 V	50 Hz	9.0 kva	7.2 kw	9.9 kva	7.9 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-P9	
Base frame	Heavy duty fabricated steel	
Circuit breaker	ABB 3 pole MCB (4 pole is optional)	
Engine speed	1500 RPM(50HZ)	
Fuel tank capacity	51 L-open & 57 L-closed	
Air inlet	Mounted air filter	
Induction system	Naturally Aspirated	
Combustion system	Indirect Injection	
Fuel system	Rotary type 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 selenoid	

Genset Model	UPG-P9
Engine Model	Perkins 403 A-11G1
Alternator Model	TAL 040 B
Controller Model	DSE 4520





Dimension				
Closed type(mm)		Open type(mm)		
Length	1870	Length	1450	
Width	760	Width	700	
Height	1320	Height	900	
Weight(kg)	480	Weight(kg)	360	

Engine Data

Model	Perkins 403A -11G1		
No of cylinder & arrangement	3 vertical in-line		
Compression ratio	23:1		
Aspiration	Naturally Aspirated		
Bore and stoke	77 x 81 mm		
Rotation	Anti-clockwise viewed on flywheel		
Governor type	Mechanical		
Radiator cooling air flow(m³/min)	0.44		
	50 Hz		
	Prime	Stand by	
Gross engine power kw(hp)	8.6 (11.5)	9.5 (12.7)	
at 50% Load(I/hr)	1.7	-	
at 75% Load(I/hr)	2.3	-	
at 100% Load(I/hr)	3.0	3.6	
Boost pressure ratio	4.9	4.9	
Total lubrication system capacity(L)	4.9	4.9	
Total Coolant capacity(L)	5.2	5.2	

Alternator Data

Leroy Somer TAL / Equivalent
TAL 040 B
Н
1
at no load<3.5%, on load<5%
2/3
IP23
2250 R.P.M
R120
SHUNT
±1%

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Enclosure

- Full length extra wide doors on each side Radiator fill access plate Vertical hinged side door 180° opening rotation Back door option also available 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 Evenuer cilopoing events with the lockable access doors
- Exhaust silencing system totally enclosed for operator safety

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

SOUND PRESSURE LEVEL

- 75/80 dBA at 3 meters (standard)
- IP Rating IP54



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

FUEL SYSTEM

Max allowable pressure	50 Hz
Кра	10
Exhaust gas flow m /min	50 Hz
Prime	1.66
Standby	1.8
Exhaust gas temperature °C	50 Hz
Prime	368
Stand by	420

AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at ±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.

OUALITY 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.

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