DATA SHEET SPECIFICATION

UPG-P80 😰



POWERED BY





Ratings @ 0.8 PF

VOLTAGE	FREQENCY	PRIME R	ATING	STAN	-BY RATING
230/400 v	50 Hz	80.0 kva	64.0 kw	88.0 kva	70.4 kw

5

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	n	
Model	UPG-P80	
Base frame	Heavy duty fabricated steel	
Circuit breaker	ABB 3 pole MCCB(4 pole is optional)	
Engine speed	1500 RPM(50HZ)	
	140 - open	
Fuel tank capacity(L)	154 - closed	
Air inlet	Mounted air filter	
Induction system	Turbocharged	
Combustion system	Direct 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 solenoid	



UPG-P80

Perkins 1104A-44TG2

TAL 044 B DSE 4520





Closed type(mm)		Open type(mm)		
	Length	2390	Length	2050
	Width	1100	Width	775
	Height	1500	Height	1430
	Weight(kg)	1160	Weight(kg)	1010

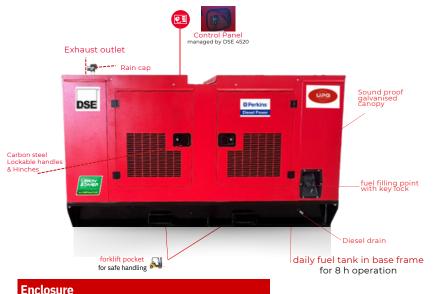
E	ngine Data	
Model	Perkins 110)4A-44TG2
No of cylinder & arrangement	4 vertica	al in-line
Compression ratio	17.2	25:1
Aspiration	water	cooled
Bore and stoke (mm)	105 >	x 127
Rotation	Anti-clockwise view	wed from flywheel
Governor	Mech	anical
Radiator cooling air flow(m/sec)	1.48 50 Hz	
	Prime	Stand by
Gross engine power kw(hp)	73.4 (98.4)	80.7 (108.2)
at 50% Load(l/hr)	9.7	-
at 75% Load(l/hr)	14.0	-
at 100% Load(l/hr)	18.7	20.5
Total lubrication system capacity(L)	8.0	8.0
Total Coolant capacity(L)	13.0	13.0

Leroy Somer
TAL 044 B
Н
1
at no load<2%,at linear load<5%
2/3
IP23
≤1000m
2250 R.P.M
R120
SHUNT
±1%

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- 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



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
- Hours run counter
 Battery volts
 Fail to start/stop
- Emergency stop
- Charge fail
 Low DC voltage

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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	50 Hz
dBA	13.0
Max allowable pressure	50 Hz
kPa	10.0
Exhaust gas flow m³/min	50 Hz
Prime	15.2
Prime Standby	15.2 16.3
Standby	16.3

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

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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