



For illustrative purposes only

Strong points

- 1- Industrial diesel engine in genset version with certificate of origin
- 2- Industrial brushless alternator with AVR
- 3- Steel baseframe with fuel tank and level sensor
- 4- Soundproof canopy in galvanised, power coated sheet steel
- 5- Soundproofing material made of high attenuation polyester fibre
- 6- Internal exhaust silencer with insulated manifold
- 7- Electrical panel mounted on board the unit with digital control device installed in metal box
- 8- Compact for easy handling and use
- 9- Test report, manuals and electrical drawings supplied
- 10- World wide after sales service and technical support

Further details on the technical data sheet

Performance	
Continuous power (PRP)	20.0 (kVA)
Continuous power (PRP)	16.0 (kW)
Stand-by power (LTP)	22.0 (kVA)
Stand-by power (LTP)	17.6 (kW)
Power factor	0.8

Voltage

Frequency (Hz)	50 Hz
Voltage (V)	400 V

Dimensions* and noise level

Width	770 mm
Length	1660 mm
Height	1330 mm
Weight	690 kg
Sound pressure 7 m.	65 dBA

Data references

Standard reference conditions temperature 25°C, altitude 100m asl, relative humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 0.8 lag, balanced load - non distortional. Fuel consumption is nominal and refers to specific weight 0,850kg/l. Sound power values refer to free field conditions: the installation site may influence the values. Dimensions, weights and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment; any optional and additional equipment/accessories can modify weight, dimensions, performance.

P.R.P. Prime Power-Continuous power at variable load: The power that a genset can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer, according to ISO8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the Manufacturer.
L.T.P. Limited-time running power-Limited power: The maximum power that a genset can supply for a limited time respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer according to ISO 8528-1. The number of hours per year is stated by the Manufacturer. Overload is not permitted.

*Dimensions: Measurements referred to the complete unit.
 Minor components might be disassembled to optimize shipping.

Engine	
Engine brand	PERKINS
Engine model	404A-22G1
Cylinders	4
Speed	1500 r.p.m.
Cubic capacity	2.22 l
Air intake	Aspirated
Standard voltage	12 Vdc
Optional voltage	Vdc
Sae	4-7½
BMEP	669 kPa
Cooling	Water

Engine power

Flywheel P.R.P. Power	18.7 kW
Flywheel Stand-by Power	20.6 kW

Fuel consumption

Fuel Cons. at 100% (L.T.P.)	6.1 l/h
Fuel Cons. at 100% (P.R.P.)	5.3 l/h
Fuel Cons. at 75% (P.R.P.)	4.0 l/h
Fuel Cons. at 50% (P.R.P.)	2.9 l/h
Fuel Cons. at 25% (P.R.P.)	0.0 l/h

Speed regulation

Electronic regulator	Not available
Precision class	G2

Engine dimensions and liquids

Oil quantity	10.6 l
Engine Antifreeze capacity	3.6 l
Radiator standard	IM50

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Heat from engine

Heat from radiator	17.0 kW
Heat from exhaust	14.0 kW
Heat from radiation	3.3 kW

Exhaust data

Exhaust temperature	445 °C
Cooling air flow	29.40 m³/min
Combustion air flow	1.45 m³/min
Exhaust gas flow	3.64 m³/min

Emissions

TA Luft	Not available
TA Luft/2	Not available
EPA	Not available
Stage	Not available

Alternator

Alternator brand	STAMFORD
Alternator model	PI144D
P.R.P. Power	20.0 kVA
L.T.P. Power	22.0 kVA

Alternator wirings

Connection	Series star
Phases	3 phases + neutral
Winding	12 terminals Winding 311
Terminal Number	12 nr.

Alternator protection

IP Protection	23
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Voltage regulator

Electronic regulator	AS480
Precision	1.0 ± %

Baseframe

Model	CRICKET CK10
Standard tank	55 l
Optional tank	Not available
Oversized tank*	Not available

Canopy & Silencer

Canopy model	CRICKET CK10
Silencer model	MSR/a 35
Silencer outlet diameter	45.0 mm

Available control panels



The **DSE4520** is a compact Auto Mains (Utility) Failure Control Module that has been developed to provide an outstanding range of features within a compact enclosure. Monitoring an extensive number of engine parameters, the module will display warning, shutdown and engine status information on the LCD screen.

Optional control panels



ATS is a new line of changeover switch panels developed and manufactured by Visa S.P.A. in accordance with CEI EN 61439-2 (construction standard). Specifically used for generating sets, the changeover switch panel allows the changeover between mains/genset or genset/genset. The main part of the panel contains two interlocking contactors or a motorised circuit breaker. All of the parts are installed inside a sturdy powder-coated metal box (RAL7035) and equipped with a lock to close the access door.

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