



VS450DS-L

Output Power

Standby Power (ESP)	kVA	450
	kW	360
Prime Power (PRP)	kVA	405
	kW	324

Size

	W x L x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB(A) @ 7m
Canopied	1650x4700x2250	3723	780	70
Open Skid	1650x3000x1970	2803	780	N/A

TBA: To Be Asked / N/A: Not Applicable

Continuous Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

Standby Power

The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year under average of 70% load. Overloading isn't permissible.

Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

Engine

Manufacturer		DOOSAN
Model		P158LE
Cylinder Configuration		V TYPE
No of Cylinders		8
Displacement	lt	14,6
Bore	mm	128
Stroke	mm	142
Compression Ratio		15:01
Aspiration		TURBOCHARGE-INTERCOOLER
Governor Type		ELECTRONIC
Cooling System		WATER
Coolant Capacity	lt	88,5
Lubrication Oil Capacity	lt	35
Electrical System	VDC	24
Speed / Frequency 50 Hz	rpm	1500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz)	kW	414
Fuel Consumption %110 ESP 50 Hz	lt / h	95,3
Fuel Consumption %100 PRP 50 Hz	lt / h	82,7
Fuel Consumption %75 PRP 50 Hz	lt / h	60,3
Fuel Consumption %50 PRP 50 Hz	lt / h	40,6
Exhaust Outlet Temperature 50 Hz	°C	580
Exhaust Gas Flow 50 Hz	m3 / min	78,3
Combustion Air Flow 50 Hz	m3 / min	25,3
Cooling Air Flow 50 Hz	m 3/ min	410

Alternator

Manufacturer		LEROY-SOMER
Model		TAL047A
No of Phases		3
Power Factor		0,8
No of Bearings		SINGLE
No of Poles		4
No of Leads		6
Voltage Regulation (Steady State)		± %1
Insulation Class		H
Degree of Protection		IP 23
Excitation System		AVR (Automatic Voltage Regulator), Brushless
Connection Type		STAR
Total Harmonic Content (No Load)		< %1,5
Frequency	Hz	50
Voltage Output 50 Hz	VAC	230 / 400
Rated Power (Standby) 400_50 Hz	kVA	450
Efficiency (4/4_400 V_50 Hz)	%	92,9

509-T

Control Panel Features 509-T

- The 509-T is a next generation genset control unit combining multi-functionality and wide communication possibilities together with a reliable and low cost design.
- The unit complies and mostly exceeds world's tightest safety EMC, vibration and environmental standards for the industrial category.
- Software features are complete with easy firmware upgrade process through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, Ethernet and GPRS.
- The PC and server based Rainbow Scada software allows monitoring and control of an unlimited number of gensets from a single central location.



Functions

- AMF unit with uninterrupted transfer
- ATS unit with uninterrupted transfer
- Remote start controller
- Manual start controller
- Engine controller
- Remote display & control unit
- Wave form display of V & I
- Harmonic analysis of V & I
- CTs at genset or load side

Topologies

- 2 phase 3 wires, L1-L2
- 2 phase 3 wires, L1-L3
- 3 phase 3 wires, 3 CTs
- 3 phase 3 wires, 2 CTs (L1-L2)
- 3 phase 3 wires, 2 CTs (L1-L3)
- 3 phase 4 wires, star
- 3 phase 4 wires, delta
- 1 phase 2 wires

Communications

- SM-GPRS
- Web monitoring
- Web programming
- GSM-SMS
- e-mail
- USB Device
- RS-232
- J1939-CANBUS

- Technical information and values are according to ISO8528, ISO3046, NEMAMG-1.22, IEC600341, BS4999-5000, VDE0530 standards.
- Producing with ISO9001, ISO14001, OHSAS18001, CE standards.
- All information given in this leaflet is intended for general purposes only.

