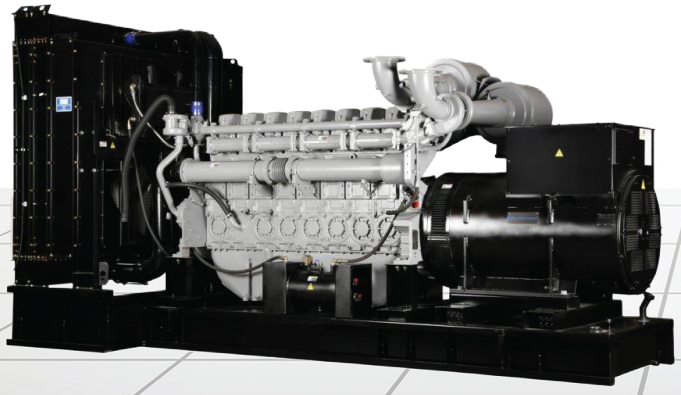
VERINSO GENERATORS



VS1650MS-L

Output Power

Standby Power (ESP)	kVA	1650
	kW	1320
Prime Power (PRP)	kVA	1500
	kW	1200

Size

	W x L x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB (A) @ 7m
Canopied	2470 x 9145 x 3150	16143	2350	93
Open Skid	2200 x 5020 x 2580	10063	2500	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		MITSUBISHI
Model		S12R-PTAA2
No of Cylinders		12
Cylinder Configuration		V TYPE
Displacement	lt	49,03
Stroke	mm	180
Bore	mm	170
Compression Ratio		13,5:1
Aspiration		TURBOCHARGE-AFTERCOOLER
Governor Type		ELECTRONIC
Cooling System		WATER
Coolant Capacity	lt	202
Lubrication Oil Capacity	lt	180
Electrical System	VDC	24
Speed / Frequency 50 Hz	rpm	1500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz)	kW	1403
Fuel Consumption 110% (ESP 50 Hz)	lt/h	321
Fuel Consumption 100% (PRP 50 Hz)	lt/h	288
Fuel Consumption 75% (PRP 50 Hz)	lt/h	218
Fuel Consumption 50% (PRP 50 Hz)	lt/h	155
Exhaust Outlet Temperature 50 Hz	°C	520
Exhaust Gas Flow 50 Hz	m3/min	279
Combustion Air Flow 50 Hz	m3/min	105
Cooling Air Flow 50 Hz	m3/min	1800

Alternator

Manufacturer		LEROY-SOMER
Model		LSA 50.2L8
No of Phases		3
Power Factor		0,8
No of Bearings		SINGLE
No of Poles		4
No of Leads		6
Voltage Regulation (Steady State)		± 0,5%
Insulation Class		H
Degree of Protection		IP 23
Excitation System		AVR (Automatic Voltage Regulator), Brushless
Connection Type		STAR
Total Harmonic Content (No Load)		< 3,5%
Frequency	Hz	50
Voltage Output 50 Hz	VAC	230 / 400
Rated Power (Standby) 400_50 Hz	kVA	1650
Rated Power (Continuous) 400_50 Hz	kVA	1500
Efficiency (4/4_400 V_50 Hz)	%	95,2

509-T MK3

Control Panel Features 509-T MK3

- 509-T MK3 is a next generation genset controller combining multi-functionality and wide communication capabilities together with a reliable and low-cost design.
- The same controller provides synchronization, load share AMF ATS, Remote Start, Engine Control and Remote Display Panel functionalities.
- The module comes ready for remote monitoring over GSM or Ethernet with plug-in communication modules.
- Various plug-in modules provide unlimited expansion capabilities allowing to meet any special requirement.
- The unit complies and mostly exceeds world's tightest safety 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 Rainbow Scada web monitoring service allows monitoring and control of an unlimited number of gensets through any web browser.

Communications

- Ethernet port (10/100Mb) *
- GSM-GPRS *
- Embedded web server *
- Web monitoring *
- Web programming *
- Central Monitoring through internet *
- SMS message sending *
- E-mail sending *
- Central monitoring *
- Modbus RTU through RS-485 *
- Modbus TCP/IP *
- SNMP *
- USB Host *
- CANBUS-2 for inter- module communication *
- USB Device
- PC software: Rainbow Plus
- J1939-CANBUS for electronic engines

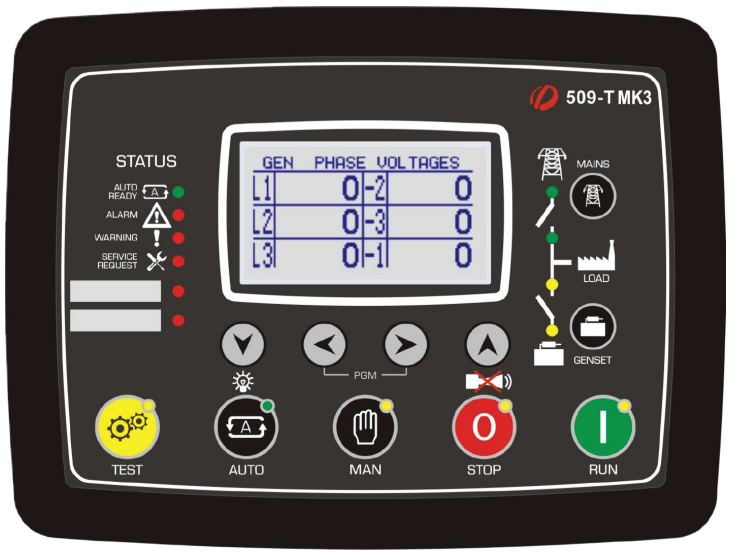
* Optional with plug-in module

Functions

- Multi genset synchronizer and load share *
- Multi genset mains synchronizer *
- Single genset parallel with mains *
- AMF unit with uninterrupted transfer
- ATS unit with uninterrupted transfer
- Remote start controller
- Manual start controller
- Engine controller
- Remote display & control unit

Topologies

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



- Technical information and values are according to ISO8528, ISO3046, NEMAMG-1.22, IEC 600341, BS 4999-5000, VDE 0530 standards.
- Producing with ISO9001, ISO14001, OHSAS18001, TSE, CE standards.
- All information given in thisleaflet isintended for general purposes only.

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