

MODEL : K110VS



Image provided for illustrative purposes only

Power Rating		
Standby power LTP	kVA	113,0
Prime power PRP	kVA	101,4

Main Features		
Frequency	Hz	50
Voltage	V	400/230V
Power factor	cos ϕ	0,8
Phase and connection		3

Main Specifications		
Engine Make & Model	Volvo	TAD531GE
Speed Governor		Mechanical
Alternator Make & Model	Mecc Alte	ECP34-2S/4
Fuel Tank (ltrs) / Autonomy @75% load (hrs)	350	19
Noise Level - dB(A)@7mt		68
Dimensions	L x W x H (mm)	3000x1150x1760
Weight	Kg	1727

General Structure

Engine/alternator monoblock unit coupled and mounted via adequately sized, anti-vibration mountings to Welded Steel Profile Base Frame with welded or screwed support legs. Plastic Fuel Tank with filler neck, air breather, minimum fuel level sensor.

- Soundproof canopy made up of modular panels, realized with zinc plated steel as treatment against corrosion and aggressive conditions, properly fixed and sealed allowing a full weatherproof enclosure.
- Easy access to the genset for maintenance purposes thanks to: Wide lateral access doors fixed by stainless steel hinges and provided with plastic lockable handles and internal perforated galvanized steel-sheet; Detachable panels, with screws holes protected by rubber tap.
- Control panel protection door provided with suitable window and lockable handle.
- Lateral air inlet opening properly protected and soundproofed. Exhaust air outlet from the roof, through wet section protected by proper grid.
- Single detachable lifting eye placed on the roof.
- Noise attenuation thanks to soundproofing material (rock wool)
- Efficient residential silencer placed inside the canopy

TECHNICAL DATA SHEET

Engine		
Brand		Volvo
Model		TAD531GE
Speed Governor		Mechanical
Max power PRP	kW	92
R.P.M.		1500
Cylinders		4 in line
Displacement	cm ³	4760
Fuel consumption at 75% of load	l/h	18,0
Cooling System		Water
Aspiration		Turbocharged-intercooled

ALTERNATOR		
Brand		Mecc Alte
Model		ECP34-2S/4
Pole		4
Stator/rotator insulation		H
Protection level	IP	23

PHYSICAL CHARACTERISTICS		
Integrated fuel tank	LTR	350
Lead acid batteries		12V140AH
Dimensions	W x L x H (mm)	3000x1150x1760
Weight	Kg	1727

Noise Level dB(A) LWA		
Guaranteed Noise Level	dB(A) LWA	97
Noise Pressure Level	@ 7 mt	68

MCP - Manual control panel

Mounted on the genset and complete of: analogue instrumentation, control, protection of the generating set, protected through door with lockable handle.

INSTRUMENTATION (ANALOGUE)

- Voltmeter (1 phase)
- Ammeter (1 phase)
- Hours-counter

COMMANDS

- Start/stop selector switch with key (Glow plugs preheating function also included).
- Emergency stop button installed on canopy side.

PROTECTION WITH ALARM

- Low fuel level
- Battery charger failure
- low oil pressure
- high engine temperature
- Earth Fault.

PROTECTIONS WITH SHUTDOWN

- Low fuel level
- Battery charger failure
- low oil pressure
- high engine temperature.
- Circuit breaker protection: III poles
- Emergency stop button

OTHERS

- Panel protected through door with lockable handle.

OUT PUT PANEL MCP

Power cables connection to Circuit Breaker.

External

Terminal Board (ETB) **Optional**

Socket kit **Optional**



ACP - Automatic control panel

Mounted on the genset, complete with digital control unit AC03 for monitoring, control and protection of the generating set, protected through door with lockable handle.

COMMANDS AND OTHERS

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test.
- Push-button for forcing Mains contactor or Genset contactor.
- Push-buttons: start/stop, fault reset, up/down/page/enter selection.
- Remote starting availability.
- DC system disconnection switch.
- Acoustic alarm.
- Automatic battery charger.
- RS232 Communication port.
- Settable PASSWORD for protection level.

ALARM PROTECTION

- Engine protection: low fuel level, low oil pressure, high engine temperature.
- Genset protection: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage

SHUT DOWN PROTECTION

- Engine protection: low fuel level, low oil pressure, high engine temperature,
- Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.
- Circuit breaker protection: III poles.
- Earth Fault included in the control unit.

OTHERS PROTECTION

- Emergency stop button.
- Panel protected through door with lockable handle.

OUTPUT PANEL ACP

Plinth row for connection from ACP to LTS panel.
 Power cables connection to Circuit Breaker.



LTS - LOAD TRANSFER SWITCH - Accessories ACP

Nominal Current	A	160
Width (W)	mm	600
Height (H)	mm	400
Depth (D)	mm	200