





(Image for reference only)

General Genset Data


SPS (SILICON POWER SYSTEMS)	
Brand	
Model (The Manufacture)	SPS15M (SPS TECHNO CIRCUITS LLP)
Origin of goods	Made In India
Quality of system management	ISO9001
Types of generators	The generator provides 1-phase 2-wire AC power, automatically adjusts fuel consumption according to the load used.
Genset Condition, Year of Manufacture	Brand new 100% , production year 2020 or later
Prime Power (ISO8528)	12.0 kVA / 12.0 kW
Standby Power (ISO8528)	13.2 kVA / 13.2 kW
Voltage output	230 VAC (Can be adjusted to 220VAC)
Frequency	50 Hz
Continuous operation time at 100% of primepower	24 hours (when enough fuel is available)
Continuous operation time at 100% of Standby power	1 hour
One step loading ability after 1-minute stable no-load	65% prime power
Noise level at 75% of rated power in open space	≤ 65dBA/7m

at 7m distance	
Fuel tank	Built-in inside the canopy, the capacity ensures to run for at least 12 continuous hours at 100% of rated power.
Transfer fuel pump	Electrical fuel pump
Automatic battery charging system	Built-in automatic battery charger system
ATS output	85A 1 phase type(Can be mounted on the genset or detached)
Canopy overall dimension (L mm x W mm x H mm)	1700mm x 800mm x 1100mm
Canopy	Steel plate material, powder coating
Base frame of Canopy	The shock absorber base frame eliminates frame fluctuations both vertically and horizontally.
Operating temperature, humidity	Temperature 0 ~ 50°C, humidity up to 95%

Diesel Engine Data



Brand	MITSUBISHI DIESEL ENGINE
	
Model (Origin)	MVS4L2-T61SP (Made In India)
The Manufacture	MITSUBISHI HEAVY INDUSTRIES – VST DIESEL ENGINES PRIVATE LTD
Engine Condition, Year of Manufacture	Brand new 100% , production year 2020 or later
Engine type	Type 4-stroke Diesel engine, water-cooled with fan
Engine Prime Power	17.5 kW at 1500 rpm
Engine Standby Power	18.4 kW at 1500 rpm
Rated speed	1500 rpm
Cylinder number	4
Cylinder arrangement	in-line
Displacement	1.758 liters (1758cc)
Compression ratio	22:1
Air intake type	Air intake by turbocharger
Fuel consumption	- At 100% load of genset prime power: ≤ 4,8 liters/hours - At 100% load of genset standby power: ≤ 3,7 liters/hours
Governor type	Mechanical
Starting system	Starting with battery power, 12VDC battery source
Emission standard	Meets the emission standards “QCVN19: 2009 / BTNMT”
Quality of system management	ISO9001
Other specifications	Please refer to attached engine catalog (MVDE_SPC_2020_S4L2-T_003)

AC Alternator Data

Brand	MECC ALTE (ITALY)
	
Model (Origin of goods)	ECP28 L4 C (Made In India)
The Manufacture	Mecc Alte India PVT LTD
Engine Condition, Year of Manufacture	Brand new 100% , production year 2020 or later
Wiring type	Dedicated
Alternator type	Self-excitation, brushless, automatic voltage regulation with electronic AVR
Prime Power of alternator (@125/40°C)	18.0 kVA/18.0 kW
Standby Power of alternator (@125/40°C)	18.0 kVA/18.0 kW
Power factor	1
The load voltage stability ranges from no-load to 100% of rated load	30 seconds after closed load, the voltage is within the rated voltage range ± 1%
Frequency stability under load ranges from no-load to 100% of rated load	After 30 seconds of loading, the frequency is within the rated frequency range ± 5%

Alternator type of bearing	Single bearing
Alternator cooled	Air cooled via fan
Insulation class	IP23
Protection class	H
Overload	1 hour in a 6 hours period 110% rated load
Efficiencies at 100% rated power	89.6%
Maximum Overspeed	2250 rpm
Altitude	≤ 1000m
Quality of system management	ISO9001
Other specifications	Please refer to attached engine catalog (World-class Alternators)

General parameters of monitoring and control system

Genset controller model	EMKO Turkey, Trans-MidiAMF.MPU.485.GPRS
Screen display center	 <p>LCD screen on genset controllerEMKO Trans-MidiAMF.MPU.485.GPRS</p>
Secondary display	 <p>LCD display on scopemeter DATAKOM DKM 409, Display and analysis of voltage ... graph</p>
Display language	English
Operation mode	<ul style="list-style-type: none"> - TEST - AUTO - MANUAL
There are controls	<ul style="list-style-type: none"> - START button - STOP button - EMERGENCY STOP button
The parameters displayed are on the LCD screen generator control monitoring system.	<ul style="list-style-type: none"> - Phase voltage (V) - Phase current (A) - Frequency (Hz) - Generator power (kW) - Generator load (%) - Generator power factor - Engine speed (rpm) - Oilpressure (Bar) - Cooling water temperature (°C) - Fuel level (% or liters) - Voltage Battery charger (Vdc) - Run hours - Next hours for maintenance - Display and analyze voltage ... graph form (On LCD clock DKM 409)
Warning features	<ul style="list-style-type: none"> - High engine temperature - The engine lubricating oil pressure is lower than the allowable threshold - Output voltage is higher / lower than permissible threshold - Output current frequency is higher / lower than the permitted threshold - Overload - Emergency stop button action - Starting battery voltage is low - The fuel level is lower than the threshold set on the controller (the setting threshold can be changed)
Automatically stop generator when	<ul style="list-style-type: none"> - Engine temperature is higher than the permissible threshold (manufacturer's default)

	<ul style="list-style-type: none"> - Lubricating oil pressure is lower than the allowable threshold (manufacturer's default) - Output voltage is higher / lower than the allowable threshold (can be set on the controller) - Frequency is higher / lower than the allowable threshold (can be set on the controller) - Overload threshold (factory default) - The fuel level is lower than the allowable threshold (can be set on the controller)
Warning form type	Warning on screen or by fault light
Remote control capabilities	Control Start/Stop remotely via drycontact and SMS Messenger
Communication standard	Have Modbus RTU RS485 port
Quality management system	ISO9001
Other specifications	Please refer to the included original equipment catalog

The battery charger is included with the generator

Automatic battery charger, model	SPS SILICON POWER SYSTEMS INDIA, SPS C1210
Input / nominal voltage range	AC Supply : Voltage Range : 100-300VAC (L-N)
Loading efficiency	> 86%
Charger mode	Boost and Float
Rated output voltage	12VDC
Max output current	10A
Safety features	<ul style="list-style-type: none"> - Protection overload, short circuit - Reverse polarity protection - Over-temperature protection - AC under and over voltage
Working temperature	-30 ÷ 60°C
Humidity	0÷90%RH (non condensing)
Quality management system	ISO9001
Other specifications	Please refer to the included original equipment catalog



Manufacture:

SPS TECHNO CIRCUITS LLP

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