SDEC
RSD415

1500 d/dak.50 Hz.

231/400 VAC

Standby Power (ESP)
Standby power is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable ofdelivering in theevent of a utility power outage orunder test conditions for up to 500 hours of operation per year under average of 70% load.Overloading is not permissible

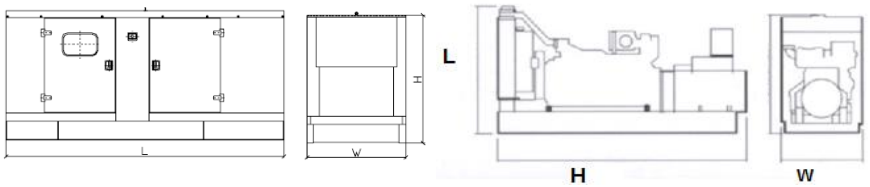
Prime Power (PRP)
Prime power is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hours.

Power Output Ratings		50 Hz. / 400 V
Standby Power (ESP)	kVA	400
	kW	320
Prime Power (PRP)	kVA	360
	kW	288

Engine		
Manufacturer		SDEC
Model		SC12H308e
No of Cylinder / Configuration		6-in line
Displacement lt	lt	14
Bore / Stroke	mm	135X165
Compression Ratio		15,5:1
Aspiration		TURBO CHARGED
Governor Type		ELECTRONIC
Cooling System		WATER
Coolant Capacity	lt	25,5
Lubrication Oil Capacity	lt	41
Electrical System	VDC	24
Speed / Frequency	rpm	1500 rpm / 50 Hz
Engine Gross Power	kWm	363
Fuel Consumption (lt/h)	100%	82
Exhaust Outlet Temperature	°C	600
Exhaust Gas Flow	m³/min	9,5
Air Intake-Engine	m³/min	3,2
Radiator Cooling Air		110

Alternator		
Manufacturer		FARADAY
Model		FC4F
Power Factor		0,8
No of Bearing		SINGLE
No of Poles		4
No of Leads		12
Voltage Regulation (Steady State)		± %0,5
Insulation		H
Degree of Protection		IP23
Excitation System		AVR, BRUSHLESS
Connection Type		STAR
Total Harmonic Content (No Load)		< %2
Frequency	Hz	50
Voltage Output	VAC	231/400

DIMENSION	L x W x H (mm)	Weight (kg)	Fuel Tank (lt)
Canopied	3700x1200x2000	4200	650
Open Skid	3000x1200x1800	3700	650



Technical information and values are according to ISO8528, ISO3046,NEMA MG1.22, IEC 600341, BS 49995000, VDE 0530 standards. Producing with ISO9001, CE standards.

CE TSE ISO 9001:2000

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DESIGN SPECIFICATIONS

High quality, reliable and complate power unit,Compact design,Easy start and maintenance possibility,Every generating set is subjected to a comprehensive test programme which includes full load testing and checking and providing of all control and safety shut down functions testing,Full engineered with a wide range of options and accessories:Canopy,soundproof and on road trailer

STANDARD GENSET SPECIFICATIONS

ENGINE

Heavy duty diesel engine. Four stroke, water cooled. Direct injection fuel system. 12 V DC starter and charge alternator. Replaceable fuel filter. Oil filter and dry element air filter. Cooling radiator and fan, starter battery (with lead acid) including rack and cables, flexible fuel connection hoses and manual oil sump drain valve, industrial capacity exhaust silencer and steel bellows, jacket water heater (at automatic models) operation manuals and circuit diagrams

ALTERNATOR

Brushless, single bearing system, flexible disc, 4 poles,Insulation class H,Standard degree of protection IP21,Self-exciting and self-regulating, Impregnation with tropicalised epoxy varnish,Solid state Automatic Voltage Regulator

BASE FRAME

The complete genset is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/ alternator feet and the base frame.Base frame design incorporates an integral fuel tank.The generating set can be lifted or carefully pushed / pulled by the base frame,Dial type fuel gauge and drain plug on the fuel tank. forklift pockets within base frame.

CANOPY

All canopy parts are designed with modular principles. Doors on each side.Without welding assembly.All metal canopy parts are painted by electrostatic Easy maintenance and operationpolyester powder paint Thermally insulated engine exhaust system Emergency stop push button is installed outside of canopy To enable for lifting easy mainteneance and operation

CONTROL SYSTEM

Panel Equipments;

Control, supervision and protection panel is mounted on the genset base frame.
The control panel is equipped as follows:

1-Auto. Mains Failure Control Panel

Control Panel Equipments:
Conrtol panel with TPH 309 module
Static battery charger
Emergency stop push button

1.1 Generating Set control module TPH 300 features:
The module is used to monitor a mains supply and automatic start a stand-by generating set.
Micro-processor based design
Monitors engine performance and AC power output
LED and LCD alarm indication
Front panel configuration of timers and alarm trip points
provides signal to change over switch panel
event logging of shutdown alarms
Remote communication via RS232 port or RS485 modbus output
easy push button control
STOP/RESET-MANUAL-AUTO-TEST-START
Operation indicators accesed by the LCD display scroll push button.

Metering via LCD Display:

Generator Volts (L-L/L-N)
Generator Amps (L1-L2-L3)
Generator Frequency (Hz)
Engine hours run
Engine oil pressure (PSI&Bar)
Engine speed RPM
Engine temperature (C & F)
Generator kVA
Generator kW
Generator power factor
Mains Frequency (Hz)
Mains Volts (F-F/F-N)
Plant battery volts

Automatic shutdown on fault conditions

Under/Over Speed
High Engine Temperature
Low Oil Pressure
Under/over generator volts
Under/over generator frequency
under/over mains frequency
under/over mains voltage
Low/High battery volts
Fail to start
Fail to stop
Charge fail
Over current
Emergency stop
CAN data fail
CAN ECU fail

LED indications

Mains available
Generator available
Mains on load
Generator on Load

2. Power Outlet Terminal Board Mounted on the Genset Baseframe

Digitally signed by Bolgarin Mihail
Date: 2022.05.26 14:19:27 EEST
Reason: MoldSign Signature
Location: Moldova

CE TSE **ISO 9001:2000**