WIR MAN



INTRODUCTION

Wirman power generation system, providing optimum performance, and reliability, for stationary standby, prime power, a continuous duty applications. All generator sets are factory build, and production tested.

Power (kVA)

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper	
	kW	kVA	kW	kVA		
400/231	240.00	300.00	216.00	270.00	432.62	

STANDBY RATING (ESP) Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

PRIME RATING (PRP) Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

General Characteristics	
Model Name	WR-300
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	WIRMAN ENGINE
Alternator Made and Model	SF300-W
Control Panel Model	DSE 6120
Canopy	AC 6C

ENGINE SPECIFICATIONS	
Engine	WIRMAN ENGINE
Engine Model	W6126
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	126
Stroke (mm.)	130
Displacement (It.)	11.05
Aspiration	Turbo Charged and Intercooled
Compression Ratio	17:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (It)	23.00

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice.

Standby Power (kW/HP)	294/400
Prime Power (kW/HP)	265/360
Block Heater QTY	1
Block Heater Power (Watt)	3000
Fuel Type	Diesel
Injection Type and System	Direct
Governor System	Electronic
Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2/85Ah
Cooling Method	Water Cooled
Coolant Capacity (engine only / with radiator) (It)	19/51
Air Filter	Dry Туре
Fuel Cons. Prime With %100 Load (lt/hr)	63
Fuel Cons. Prime With %75 Load (lt/hr)	47
Fuel Cons. Prime With %50 Load (lt/hr)	31.7
ALTERNATOR CHARACTERISTICS	
Manufacturer	Wirman
Alternator Made and Model	SF300-W
Frequency (Hz)	50
Power (kVA)	300
VOLTAGE (V)	400/231
Phase	3
A.V.R.	SX460
Voltage Regulation	(+/-)1.5%
Insulation System	н
Protection	IP22
Rated Power Factor	0.8
WEIGHT WOUND ROTOR (Kg)	940
COOLING AIR (m³/min)	29.16
Gen.Set Canopy Dimensions (mm)	
LENGTH	3200
WIDTH	1150
HEIGHT	1900
DRY WEIGHT (kg.)	3450

INTRODUCTION

Sound-attenuated and Weather-protective Enclosures Sound-attenuated and weather protective enclosures for generating sets from , meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice.

Control Panel

Control Module	DSE
Control Module Model	DSE 6120
Communication Ports	MODBUS



1.	Menu	navigation	buttons
----	------	------------	---------

- 2. Close mains button
- 3. Main Status and instrumentation display
- 4. Alarm LED's
- 5. Close generator button
- 6. Status LED's
- 7. Operation selecting buttons

Devices

-DSE, model 6120 Auto Mains Failure control module.

-Battery charger input 198-264 volt, output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)

-Emergency stop push button and fuses for control circuits.

CONSTRUCTION and FINISH

-Components installed in sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface. Polyester composite powder topcoat forms high gloss and extremely durable finish. Lockable and hinged panel door provides easy access to components.

INSTALLATION

Control panel is mounted on baseframe with steel stand. Located at the right side of the generator set (When you look at the Gen.Set. from Alternator)

GENERATING SET CONTROL UNIT

The DSE 6120 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts.

Module monitors the mains supply and switch over to the generator when the mains power fails.

The DSE6120 also indicates operational status and fault conditions, Automatically shutting down the Gen. Set and giving true first up fault condition of Gen. Set failure. The LCD display indicates the fault.

STANDARD SPECIFICATIONS

-Microprocessor controlled.

-LCD display makes information easy to read.

-Automatically transfers between mains (utilty) and generator power.

-Manual programming on front panel.

-User-friendly set-up and button layout.

-Remote start.

-Event logging (50) showing date and time.

-Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to

scroll through the modules' metering displays.

Instruments
ENGINE
-Engine speed.
-Oil pressure.
-Coolant temperature.
-Run time.
-Battery volts.
-Configurable timing.
GENERATOR
-Voltage (L-L, L-N).
-Current (L1-L2-L3).
-Frequency.
-Gen. Set ready.
-Gen. Set enabled.
MAINS
-Mains ready.
-Mains enabled.
WARNING
-Charge failure.
-Battery Low/High voltage.
-Fail to stop.
-Low /High generator voltage.
-Under /Over generator frequency.
-Over /Under speed.
-Low oil pressure.
-High coolant temperature.
SHUT DOWNS
-Fail to start.
-Emergency stop.
-Low oil pressure.
-High coolant temperature.
-Over /Under speed.
-Under/over generator frequency.
-Under/over generator voltage.
-Oil pressure sensor open.
-Coolant temperature sensor open.
ELECTRICAL TRIP

-Generator over current.

Options

-Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)

-Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt).

Standards

-Elecrical Safety / EMC compatibility

-BS EN 60950 Electrical business equipment.

-BS EN 61000-6-2 EMC immunity standard.

-BS EN 61000-6-4 EMC emission standard

STATIC BATTERY CHARGER

- Battery charger is manufactured with switching-mode and SMD technology and it has high efficiency.

- Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V . Input 198 - 264 volt AC.

- The charger is fitted with a protection diode across the output.
- Connect charge fail relay coil between positive output and CF output.
- They are equipped with RFI filter to reduce electrical noise radiated from the device.
- Galvanically isolated input and output typically 4kV for high reliability.

STANDARD SPECIFICATIONS

- Heavy duty, water cooled diesel engine
- Radiator with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine coolant heater
- Steel base frame and anti-vibration isolators
- Spare external fuel tank (open set)
- Flexible fuel connection hoses
- Two bearing, class H alternator
- Industrial exhaust silencer and steel bellows supplied separately
- Static battery charger
- Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE
Remote Radiator Cooling
Fuel-Water Seperator Filter
ALTERNATOR
Anti-Condensation Heater
Main line circuit breaker
CONTROL SYSTEM

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice.

Charge Ammeter	
TRANSFER SWITCH	
Three Pole Contactor	
Four Pole Contactor	
Three or four pole motor operated circuit breaker	
OTHER ACCESSORIES	
Main Fuel Tank	
Automatic or manual fuel filling system	
Manual oil drain pump	
Residential silencer	
Enclosure: weater protective or sound attenuated	
Trailer	
Tool kit for maintenance	

WIRMAN CERTIFICATES

- TS ISO 8528
- CE
- SZUTEST