



# RERO 17.5 Y-SERIES S

Industrial Range | Powered by Yanmar

## Stage V

## ■ General Characteristics



Item	Data
Standby Power (kVA)	19
Standby Power (kW)	15
Prime Power (kVA)	17.5
Prime Power (kW)	14
Power Factor (Cos Phi)	0.8
Diesel Engine	4TNV88-BIGE
Frequency (Hz)	50
Rated Speed (rpm)	1500
Phase	3
Standard Voltage (V)	400/230
Available Voltages (V)	380/220 · 415/240
Noise Level	68db @ 7meter

### ● Power Definition

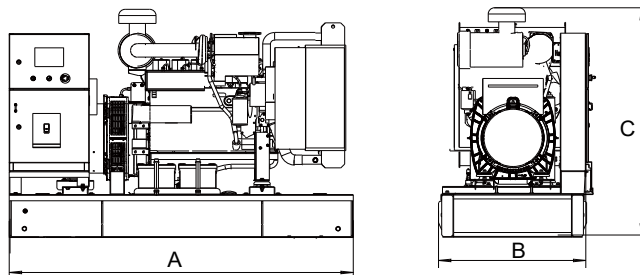
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**Prime Power(PRP):** The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

### ● Terms of use

According to the standard, the nominal power assigned by the genset is given for 25 °C air inlet temperature, of a barometric pressure of 100 kPa (100m A.S.L) and 30%.

## ■ Dimensions , weights & Fuel Tank



**Note:** General configuration not to be used for installation. See general dimension drawings for detail.

Model	Constructure	Dim“A”mm	Dim“B”mm	Dim“C”mm	Dry Weight kg	Fuel Tank Capacity L
RID 17.5 Y- SERIES S	Silent type	2020	955	1150	790	150





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## ■ Engine Data

General Engine Data	
Engine brand	Yanmar
Engine model	4TNV88-BIGE
Engine type	4-stroke diesel
Governor type	Electrical
Injection type	Direct
Aspiration type	Direct injection
Number of cylinders and arrangement	4-L
Bore and stroke (mm*mm)	88X90
Displacement (L)	2.189
Cooling system	Water-cooled
Lube oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	19.1: 1
Air Filter	Dry
Fuel Consumption	
Fuel Consumption @100% load ESP (g/kwh)	-
Fuel Consumption @100% load PRP (g/kwh)	243
Fuel Consumption @75% load PRP (g/kwh)	-
Fuel Consumption @50% load PRP (g/kwh)	-
Air System	
Combustion air flow (m3/h)	-
Cooling air flow (m3/h)	-
Exhaust System	
Maximum exhaust temperature (°C)	550
Exhaust gas flow (m3/h)	-
Maximum allowed back pressure (kPa)	10
Starting System	
Starting power(kW)	1.4
Recommended battery (Ah)	60AH
Number of Batteries	1
Auxiliary voltage (Vdc)	12
Oil System	
Engine oil capacity (L)	7.4
Cooling System	
Total coolant capacity (L)	2.7





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## ■ Alternator Data

Alternator Data	
Brand & Model	Leroy Somer TAL-A40-E
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Insulation	H class
Enclosure(according IEC-34-5)	IP23
Excitation system	Self-excited, brushless
Voltage regulator	AVR (Electronic)
No. of bearings	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)

## ■ Control Module



### Protections with alarm

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

### Other Protections

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

### Digital Instrumentation

- Generating set voltage.
- Mains voltage.
- Generating set frequency.
- Generating set current.
- Battery voltage.
- Power (kVA-kW-kVAr)
- Power factor Cos  $\phi$ .
- Hours-counter
- Engine speed r.p.m
- Fuel level (%)

### Commands and other

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test
- Pushbutton 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.

### Protections with shutdown

- Engine protections: 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.

