

| GENERATING RATES      |        | PRIME   | STANDBY |
|-----------------------|--------|---------|---------|
| Power                 | KVA    | 230     | 255     |
| Power                 | KW     | 183     | 204     |
| Current               | A      | 331     | 367     |
| Standard Voltage      | V      | 400/230 |         |
| Revolution Per Minute | r.p.m. | 1500    |         |
| Rated at Power Factor | Cos Q  | 0,8     |         |

**STANDBY POWER:**

Supplying of emergency electrical power at variable load, in the event of normal utility power failure. This rating is maximum power, no overload capability is available.

**PRIME POWER:**

It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours of operation.



**STANDART FEATURES**

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel engine
- Protection system on manual run
- Flexible oil pipes and oil draining valve
- Pre-heater
- Lubrication oil and anti-freeze
- 4 Poles, synchron type, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis.
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

**OPTIONAL EQUIPMENTS**

- Sound proof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
- Automatic / Manuel
- Analog indicators
- 1 Phase - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control and monitoring

#### ENGINE SPECIFICATIONS

|                               |            |                         |
|-------------------------------|------------|-------------------------|
| Brand                         |            | SHANGAI PRE.            |
| Model                         |            | SC8H217                 |
| Engine Power Stand BY         | (kWm / hp) | 206/276                 |
| Revolution Per Minute         | (r.p.m.)   | 1500                    |
| Total Displacement            |            | 8,27                    |
| Cylinders Orientation         |            | 6 SINGLE LINE           |
| Bore x Stroke                 | (mm x mm)  | 114 x 135               |
| Compression Orientation       |            | 18:01                   |
| Governor Type                 |            | ELECTRONIC              |
| Aspiration System             |            | TURBOCHARGE-INTERCOOLER |
| Injection                     |            | DIRECT                  |
| Cooling                       |            | WATER COOLED            |
| Electrical System             | (VDC)      | 24                      |
| Lub-Oil Capacity              | (L)        | 32,5                    |
| Engine Coolant Capacity       | (L)        | 46                      |
| Fuel Tank Capacity            | (L)        | 300                     |
| Maximum Exhaust Temperature   | (°C)       | 600                     |
| Maximum Exhaust Gas Flow      | (m3/h)     | 2460                    |
| Maximum Allowed Back Pressure | (kPa)      | 5                       |
| Cooling Air Flow              | (m3/min)   | 1116                    |
| Fuel Consumption 50 %         | (L/h)      | 24                      |
| Fuel Consumption 75 %         | (L/h)      | 36                      |
| Fuel Consumption 100 %        | (L/h)      | 48                      |

- Replaceable cylinder jacket • Dry type replaceable oil filter • Heat-resistant radiator for 50 °C

#### ALTERNATOR SPECIFICATIONS

|                                |         |                  |
|--------------------------------|---------|------------------|
| Output Voltage                 | (V)     | 230/400          |
| Frequency                      | (Hz)    | 50               |
| Stationary Voltage Regulation  | (±)     | 1%               |
| Short Circuit Current          |         | %300 (10 MIN.)   |
| Insulation                     |         | H                |
| Protection                     |         | IP 23            |
| Efficiency                     | (%)     | 94,2             |
| Overloading                    |         | % 110 FOR 1 HOUR |
| Power Factor                   |         | 0.8              |
| Total Harmonic Distortion Rate | (cos Q) | < 1 %            |
| Connection Type                |         | STAR             |
| Number Of Pole                 |         | 4                |
| Number Of Bearing              |         | SINGLE           |

- 4 Poles, Self-Excitation and Self-Cooled, Brushless, Synchronotype alternator • Electronic type automatic voltage regulator (AVR)

### CONTROL PANEL FEATURE

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable language
- Waveform display of V & I
- Harmonic analysis of V & I
- Synchroscope & check synch
- 16 Amp MCB & GCB outputs
- 8 configurable digital outputs
- Outputs expandable to 40
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of genset
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel fulling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Contactor & MCB drive
- 4 quadrant genset power counters
- Main power counters
- Fuel fulling counter
- Fuel consumption counter
- Modem & Ethernet diagnostic
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allow SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity [USB and RS232]
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with standard gasket
- Multiple nominal conditions

### DIMENSIONS AND WEIGHT



|                    |    |      |
|--------------------|----|------|
| Lenght (L)         | mm | 3000 |
| Height (H)         | mm | 1750 |
| Width (W)          | mm | 1200 |
| Wet weight         | kg | 1575 |
| Fuel Tank Capacity | L  | 300  |

### DIMENSIONS AND WEIGHT



|                    |    |      |
|--------------------|----|------|
| Lenght (L)         | mm | 3500 |
| Height (H)         | mm | 1950 |
| Width (W)          | mm | 1200 |
| Wet weight         | kg | 1895 |
| Fuel Tank Capacity | L  | 300  |