



# GENERATORS

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## Model: 100kVA 3 PHASE

### POWER DATA

| Voltage  | Prime Power |    | Standby Power |    | Standby AC     | No. of Phase |
|----------|-------------|----|---------------|----|----------------|--------------|
|          | kva         | kw | kva           | kw | Amps Per Phase |              |
| 220/380V | 100.0       | 80 | 110           | 88 | 167.1          | 3            |
| 230/400V | 100.0       | 80 | 110           | 88 | 158.8          | 3            |
| 240/415V | 100.0       | 80 | 110           | 88 | 153.0          | 3            |
| 254/440V | 100.0       | 80 | 110           | 88 | 144.3          | 3            |

### ENGINE DATA

|                        |            |                                |              |
|------------------------|------------|--------------------------------|--------------|
| Manufacturer           | SDEC       | Compression Ratio              | 16.0:1       |
| Model                  | SC4H140D2  | Oil Capacity (L)               | 13.0         |
| Governor Type          | Electronic | Electrical System              | 24V          |
| Speed                  | 1500rpm    | Coolant Capacity (L)           | 26.5         |
| Prime Power (kw)       | 95         | Fuel Consump. (100%load)(L/HR) | 24           |
| Standby Power (kw)     | 105        | Fuel Tank Capacity (L)         | 250          |
| Cylinder No. & Config. | 4 in Line  | Cooling                        | Water Cooled |
| Displacement           | 4.3L       | Aspiration                     | Turbo        |

### ALTERNATOR DATA

|                |         |                   |                |
|----------------|---------|-------------------|----------------|
| Manufacturer   | LONGEN  | Voltage (V)       | 220/380        |
| Model          | WHI274C | Voltage Accuracy  | ± 1%           |
| Capacity (kva) | 100     | Frequency         | 50Hz           |
| Power Factor   | 0.8     | Insulation Class  | H              |
| Efficiency     | 89.8%   | Protection Rate   | IP23           |
| Bearing Number | Single  | Excitation System | Brushless, AVR |
| Leads Number   | 12      | Connection Type   | Star           |

### OVERALL DIMENSIONS & WEIGHT

|                                  |                    |
|----------------------------------|--------------------|
| Genset Size (mm) (L x W x H) Net | 2800 x 1050 x 1700 |
| Weight (kg)                      | 1660               |



### KEY FEATURES

1. Durable SDEC "H" Series Engine
2. Single Bearing Stamford Type Alternator
3. ATS & AMF
4. Four Protection Device Equipped
5. Anti-Vibration Mountings
6. Main Line Circuit Breaker
7. Factory Test Certificate
8. Noise Level @7m (db): 85

### STANDARD CONTROL SYSTEM

The Standard control system is based on the advanced smartgen HGM7220 Electronic Digital Controller. This Provides for the manual and automatic remot start of generator with a LCD digital display of:

1. Coolant Temperature
2. Oil Pressure
3. Volts, Amps, Power Factor & Frequency
4. Engine Operation Hours
5. Over Current Protection
6. Under, Over Volt Protection
7. Over Temperature Protection
8. Over Speed, Low Oil Pressure Protection

