

### Standard Features

| MODEL               | MT-C100           |
|---------------------|-------------------|
| Standby Power(60Hz) | 88KW/110KVA       |
| Prime Power(60Hz)   | 80KW/100KVA       |
| Engine              | Cummins 6BT5.9-G2 |
| Alternator          | STAMFORD UCI274C  |

- **Engine (CCEC Cummins 6BT5.9-G2)**
- Radiator 40°Cmax, fans are driven by belt, with safety guard
- 24V charge alternator
- **Alternator (STAMFORD UCI224C),**
- single bearing alternator, Protection Class IP22, insulation class H/H
- Dry Type air filter, fuel filter, oil filter, pre-filter, absorber
- Main line circuit breaker
- Standard control panel
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, Exhaust siphon, flange, muffler
- Operation manual



| Generator Set Ratings |           |       |                   |              |                          |                        |
|-----------------------|-----------|-------|-------------------|--------------|--------------------------|------------------------|
| Voltage               | Frequency | Phase | P.F (COS $\phi$ ) | Standby Amps | Standby Ratings (KW/KVA) | Prime Ratings (KW/KVA) |
| 440/254               | 60        | 3     | 0.8               | 131          | 88/110                   | 80/100                 |
| 415/240               | 60        | 3     | 0.8               | 139          | 88/110                   | 80/100                 |
| 400/230               | 60        | 3     | 0.8               | 144.4        | 88/110                   | 80/100                 |
| 380/220               | 60        | 3     | 0.8               | 152          | 88/110                   | 80/100                 |

**Prime Power (PRP):** Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97(eqvISO8528); A1 0% overload capability is available for a period of 1 hour within a 12-hour period of operation. **Standby Power Rating (ESP):** The standby power rating is applicable for supplying emergency

| Dimension Of Generator Set               |                |
|------------------------------------------|----------------|
| Dimension(L*W*H)/CM For Open Type        | 220×85×150 CM  |
| Net Weight/KG For Open Type              | 1450KG         |
| Dimension(L*W*H)/CM For Sound Proof Type | 276×114×183 CM |
| Net Weight/KG For Sound Proof Type       | 1900 KG        |
| Dimension (L*W*H)/MM For Trailer Type    |                |
| Net Weight/KG For Trailer Type           |                |

| Specification Of Engine |                                            |                            |
|-------------------------|--------------------------------------------|----------------------------|
| Engine                  | Engine Model                               | 6BT5.9-G2                  |
|                         | Manufacturer                               | DCEC Cummins               |
|                         | Prime Power                                | 100KW/134HP                |
|                         | Standby Power                              | 110KW/147HP                |
|                         | Engine Configuration                       | 6Cylinder In Line, 4Stroke |
|                         | Gas Feeding Model                          | Turbocharged               |
|                         | Bore × Stroke                              | 102 × 120 (MM)             |
|                         | Displacement                               | 5.9L                       |
|                         | Rated Speed                                | 1800RPM                    |
|                         | Speed Governor                             | Electronic                 |
|                         | Starter Model                              | 24V DC Start               |
|                         | Fuel Consumption Standby Power (100% load) | 214 g/Kw.h                 |
|                         | Fuel Consumption Prime Power (75% load)    | 216 g/Kw.h                 |
|                         | Oil Consumption                            | ≤4 g/kwh                   |
|                         | Cooling System                             | Water Cool                 |
|                         | Compression Ratio                          | 17.5:1                     |
|                         | Max Back Pressure                          | 10KPA                      |
|                         | Max Intake Restriction                     | 6.35KPA                    |
|                         | Exhaust Temperature                        | 497℃                       |
|                         |                                            |                            |

| Specification Of Alternator |                                                                 |                                        |
|-----------------------------|-----------------------------------------------------------------|----------------------------------------|
| Alternator                  | Alternator Model                                                | UCI274C                                |
|                             | Manufacturer                                                    | STAMFORD company                       |
|                             | Prime Output                                                    | 80KW/107KVA                            |
|                             | Standby Output                                                  | 88KW/118KVA                            |
|                             | Excitation Model                                                | Brushless, Self-Exciting               |
|                             | Cooling Method                                                  | Air Cooling                            |
|                             | Connection Type                                                 | 3 Phase and 12 Wires "Star" Connection |
|                             | Power Factor                                                    | 0.8                                    |
|                             | Protection Class                                                | IP22                                   |
|                             | Insulation Class                                                | H                                      |
|                             | Altitude                                                        | $\leq 1000\text{m}$                    |
|                             | Voltage Regulation, Steady State                                | $\leq \pm 1\%$                         |
|                             | Telephone Influence Factor                                      | $< 50$                                 |
|                             | Sudden Voltage Warp (100% Sudden Reduce)                        | $\leq \pm 1\%$                         |
|                             | Sudden Voltage Warp (Sudden Increase)                           | $\leq \pm 25\%$                        |
|                             | Voltage Stable Time (100% Sudden Reduce)                        | $\leq 6\text{S}$                       |
|                             | Voltage Stable Time (Sudden Increase)                           | $\leq 6\text{S}$                       |
|                             | Frequency Reduce                                                | 0-5% adjustable                        |
|                             | Frequency Regulation, Stead State                               | $\leq 1.5\%$                           |
|                             | Frequency Waving                                                | $\leq 0.8\%$                           |
|                             | Sudden Frequency Warp (100% Sudden Reduce)                      | $\leq +12\%$                           |
|                             | Sudden Frequency Warp (100% Sudden Increase)                    | $\leq -10\%$                           |
|                             | Frequency Recovery Time (100% Sudden Reduce)                    | $\leq 5\text{S}$                       |
|                             | Frequency Recovery Time (Sudden Increase)                       | $\leq 5\text{S}$                       |
| Compliance Stands           | GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 |                                        |

## Control Panel System



### MONICAN CONTROL MODEL/ MANUAL OR ATS USE

With Four Protection

1. High water Temperature Shutdown
2. Low Oil Pressure Shutdown
3. Over Speed Shutdown 4. Over Crank Shutdown
5. Protection as Emergent Stop

#### Parameters of Operation:

1. Emergency Stop Button 2. Voltmeter and Selector Switch
3. Ammeter and Selector Switch 4. Frequency Meter
5. Hour Running Meter 6. Alart Buzzer



### SMARTGEN CONTROL MODEL/ MANUAL OR ATSUSE

With Four Protection

1. High water Temperature Shutdown
2. Low Oil Pressure Shutdown
3. Over Speed Shutdown
4. Over Crank Shutdown
5. Protection as Emergent Stop

#### Parameters of Operation:

Digital type, all function showed by LED



### DEEPSEA CONTROL MODEL/ MANUAL OR ATS USE

With Four Protection

1. High water Temperature Shutdown
2. Low Oil Pressure Shutdown
3. Over Speed Shutdown
4. Over Crank Shutdown
5. Protection as Emergent Stop
- 6 With Remote Teleport Communication RS 485

#### Parameters of Operation:

Digital type, all function showed by LED