



# New Series



Certificate No.: 72Q10168



Certificate No.: 1292149



**Much Quieter, much Easier for  
Operation and Application.**

**The Advanced Generator.**

**MCWEL MGC、MGP、MGK、MGI、  
Series Engine Generators**

**MGC310s**  
*Diesel Brushless Generator*



## Environmental Amenity

### ◆ Quietude

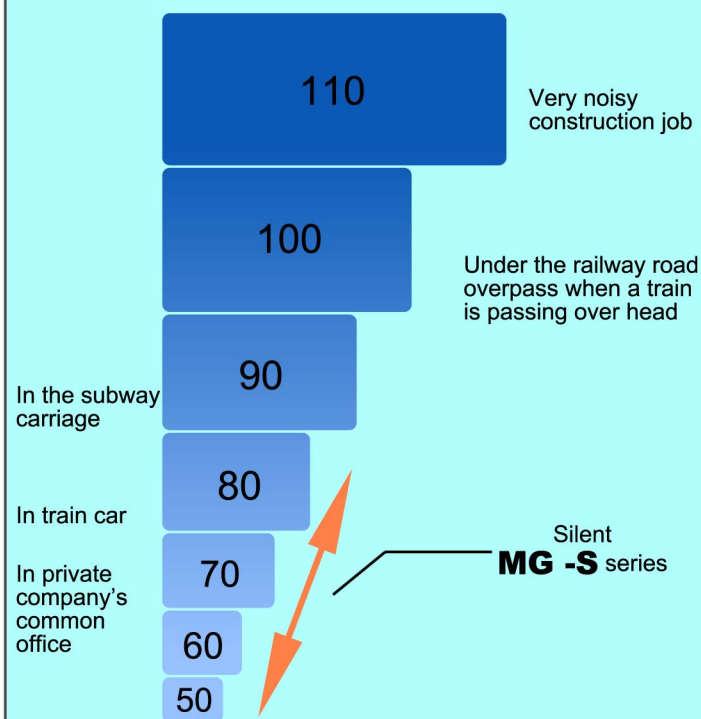
Operation sound has been minimized because they are driven by low noise engines and equipped with large capacity soundproof muffler and specially designed exhaust system to reduce exhaust noise. MCWEL series generators are so fully panel-constructed that structural clearance and space are reduced to a minimum. The operation noise have also been minimized by equipment of combined suction duct.

Further, the exhaust muffler is specially designed to be supported by a special-designed supporting structure, total vibration of the machine has been reduced.

### ◆ Newly-Designed Panel Construction

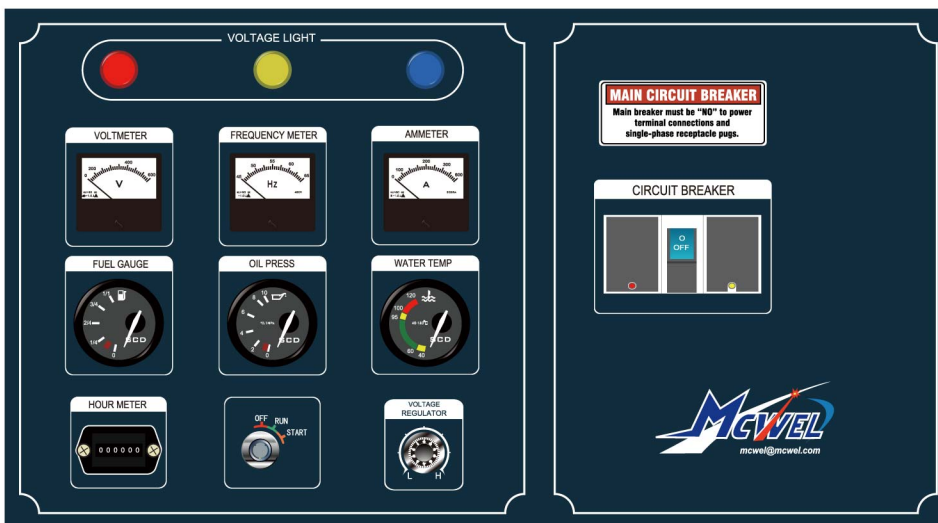
The bonnet is of panel constructed type for easily dismantling and assembling for maintenance.

#### ※ Noise Level (at 7 meters distance from the machine at no load)



# Generator Performance

## ◆ Control Panel

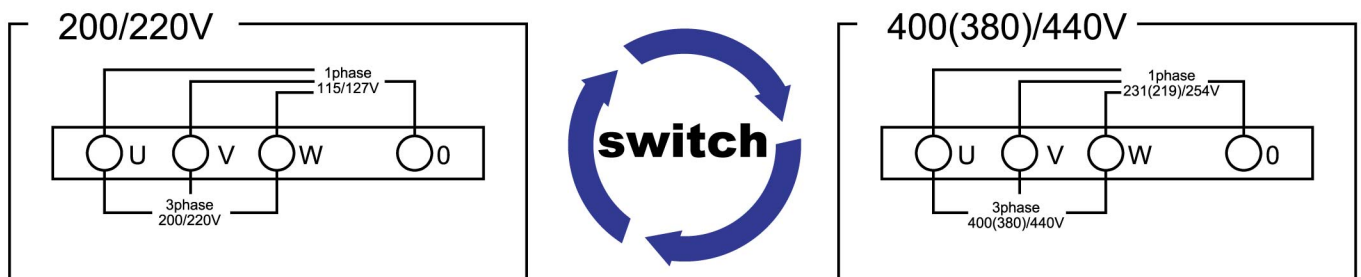


Control devices for generator and electrical appliances for engine are concentrated inside the control panel for better maintenance.

## ◆ Dual Voltage Models

By changing over the short connecting plate in the control panel, the three phase output voltage can be switched to 200/220V from 400(380)/440V and vice versa.

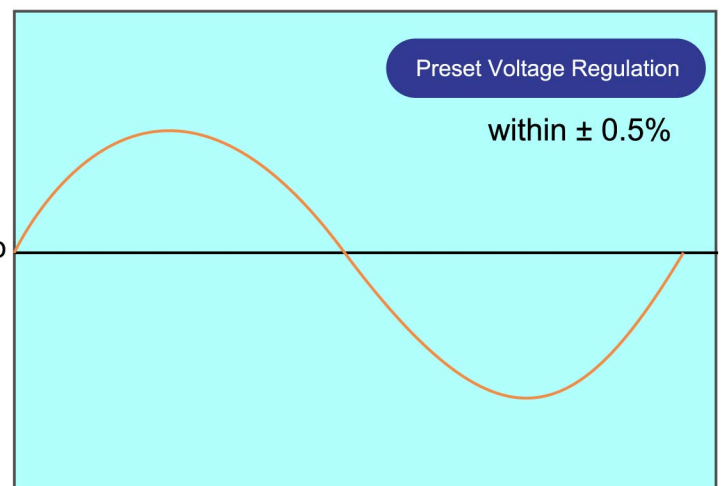
When starting engine, the indication lamp at the operation panel goes on to display the operating voltage immediately.



## ◆ Better Generating Performance

MCWEL series generators are mounted by such brushless alternator with transient reactance much reduced, and negative phase yield strength more increased and deflection of output wave form minimized due to reinforced damper coil.

Therefore, they are suitably applicable for inverter load, thyristor load, computer control lighting load, precision instruments and instrumental devices.



# Welding Generator Performance

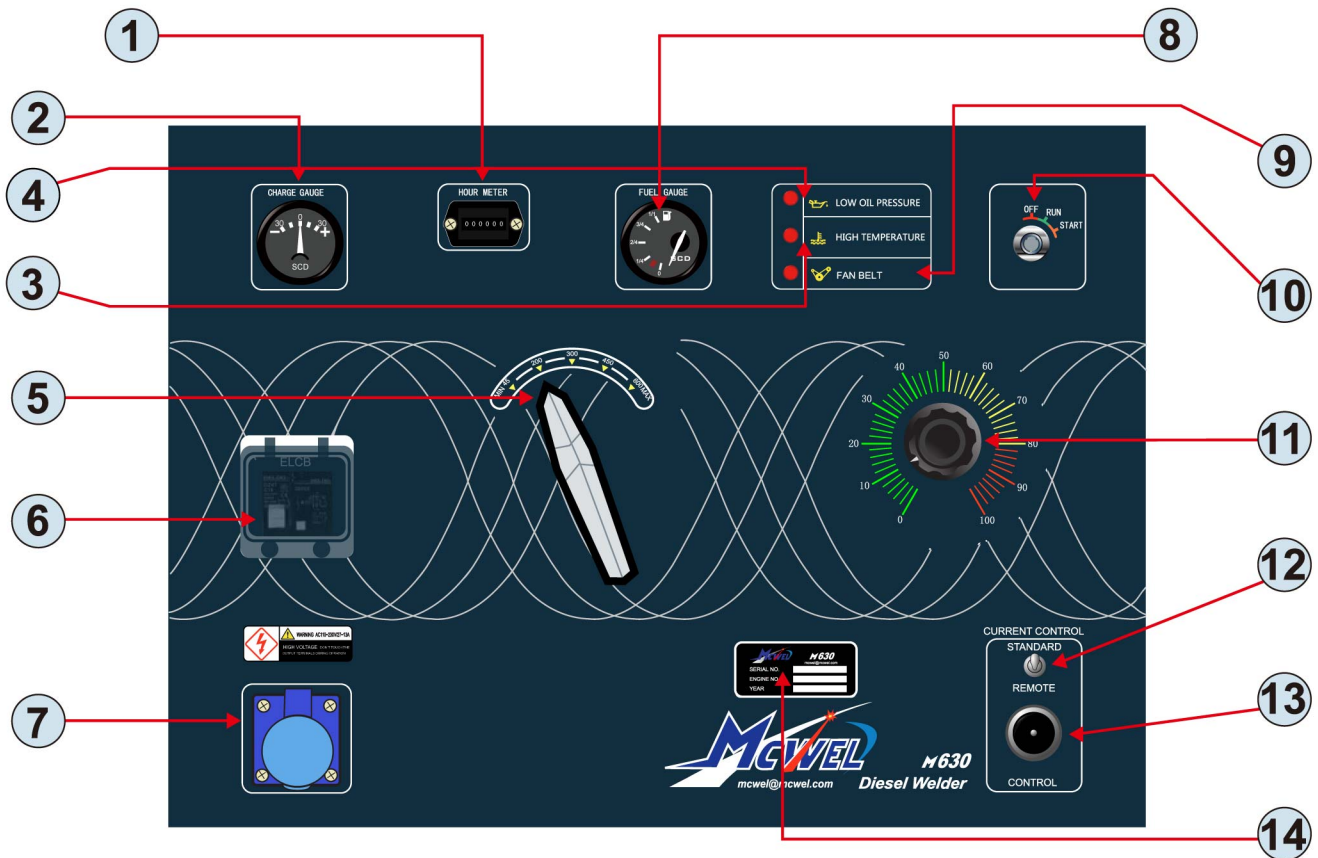
## ◆ Diesel Engine-Driven High Performance Welding Generator



### MCWEL-M 630 Constant Current Welding Generator

- ➞ Electric starter ensures easy starting
- ➞ Separate welding range with fine adjustment in each range
- ➞ Great welding performance
- ➞ 3-Cylinder air-cooled diesel engine
- ➞ Auxiliary power while welding
- ➞ 630 Amperes output suitable for 1.6 to 8.0mm Air Carbon Arc Gouging and Stud Welding
- ➞ Easy operation, handling, convenient and safe

# CONTROL PANEL



- |                                                  |                                    |
|--------------------------------------------------|------------------------------------|
| 1. Running Hour Meter                            | 8. Fuel Gauge                      |
| 2. Charge Gauge                                  | 9. Fan Belt                        |
| 3. Temperature Indicator Light                   | 10. On-Off Key Switch              |
| 4. Oil Pressure Indicator Light                  | 11. Min/Max Fine Adjustment Switch |
| 5. Ampere Selector Switch ( 45/200/300/450/600 ) | 12. Remote Control Switch          |
| 6. Elcb                                          | 13. Remote Control Plug            |
| 7. AC230V / 13A; AC110V / 27A                    | 14. Serial Number Plate            |

## SPECIFICATIONS

### SET MODEL

### MCWEL - M630 DIESEL WELDER

| D<br>C<br><br>W<br>E<br>L<br>D<br>E<br>R | Type                 | DC Output |                     | E<br>N<br>G<br>I<br>N<br>E | Model              | F3L912                               |             |
|------------------------------------------|----------------------|-----------|---------------------|----------------------------|--------------------|--------------------------------------|-------------|
|                                          | Rated Output         | KW        | 26.4                |                            | Type               | Air-Cooled Industrial Diesel Engine  |             |
|                                          | Rated Current        | A         | 600                 |                            | Rated Output       | KW                                   | 29          |
|                                          | Voltage              | V         | 20 ~ 45             |                            | Rated Speed        | rpm                                  | 1800 / 60Hz |
|                                          | Current Range        | A         | 45 ~ 630            |                            | Cooling System     | Air-Cooling Environmental Conditions |             |
|                                          | Open-Circuit Voltage | V         | 95                  |                            | Driving System     | Direct Coupling                      |             |
|                                          | Rated Duty Cycle     | %         | 60                  |                            | Fuel Oil           | Light Diesel Oil                     |             |
|                                          | Rated Speed          | rpm       | 1800 / 60Hz         |                            | Lubricating System | Gear Pump                            |             |
|                                          | Applicable Electrode | mm        | 1.6 ~ 8.0           |                            | Starting System    | Electric Motor                       |             |
| P<br>A<br>O<br>W<br>E<br>R               | Type                 | AC Output |                     | Battery Capacity           |                    | 12V - 80AH                           |             |
|                                          | Rated Output         | KW        | 3 (1-Phase Version) | Fuel Tank Capacity         |                    | ℓ                                    | 90          |
|                                          | Rated Current        | A         | 13 ; 27             | Dimensions                 | L                  | mm                                   | 1525        |
|                                          | Rated Voltage        | V         | 230 ; 110           |                            | W                  | mm                                   | 760         |
|                                          | Rated Speed          | rpm       | 1800 / 60Hz         |                            | H                  | mm                                   | 1050        |
|                                          | Rating               |           | Continuous          | Net weight (dry, approx.)  |                    | Kg                                   | 900         |



## MCWEL GENERATOR SET



| Generator Model         |                                     | MGK16S                                | MGK20S                | MGI31S                | MGI37S                  | MGP55S                | MGP90S                | MGP125S                | MGP175S                 |
|-------------------------|-------------------------------------|---------------------------------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|------------------------|-------------------------|
| ENGINE                  | Model                               | KD388G                                | KD488J                | 4JB1<br>Isuzu         | 4JB1T<br>Isuzu          | 1004G<br>Lovol        | 1004TG<br>Lovol       | 1006TG2A<br>Lovol      | 1006TAG<br>Lovol        |
|                         | No. of Cylinder                     | 3                                     | 4                     | 4                     | 4                       | 4                     | 4                     | 6                      | 6                       |
|                         | Type                                | Water-Cooled Industrial Diesel Engine |                       |                       |                         |                       |                       |                        |                         |
|                         | Displacement (ℓ)                    | 1.642                                 | 2.19                  | 2.8                   | 2.8                     | 3.99                  | 3.99                  | 5.99                   | 5.99                    |
|                         | Maximum Output<br>(1500rpm/1800rpm) | 13.5/16.3KW                           | 18.0/21.6KW           | 27/31KW               | 32/38KW                 | 44/55KW               | 72.3/90.4KW           | 102/127.5KW            | 134/167.5KW             |
|                         | Rated Output<br>(1500rpm/1800rpm)   | 12.3/14.8KW                           | 16.4/19.6KW           | 24/28KW               | 28/34KW                 | 40/50KW               | 65.7/82.1KW           | 92.3/115.4KW           | 121/151.3KW             |
|                         | Fuel Consumption                    | 3.29 ℓ/hr                             | 4.39 ℓ/hr             | 6.21 ℓ/hr             | 7.32 ℓ/hr               | 9.88 ℓ/hr             | 15.85 ℓ/hr            | 22.26 ℓ/hr             | 29.18 ℓ/hr              |
| ALTERNATOR              | Model (Genfor)                      | GF16                                  | GF20                  | GF31                  | GF37                    | GF55                  | GF90                  | GF125                  | GF175                   |
|                         | Rated Output<br>(50HZ / 60HZ)       | 10.8/13.5KW<br>13.5/16.8KVA           | 12.8/16KW<br>16/20KVA | 20/26KW<br>25/32.5KVA | 25/30KW<br>31.3/37.5KVA | 34/44KW<br>42.5/55KVA | 60/75KW<br>75/93.7KVA | 80/100KW<br>100/125KVA | 112/143KW<br>140/178KVA |
|                         | Rated Voltage                       | 400/ 440V; 200/ 220V                  |                       |                       |                         |                       |                       |                        |                         |
|                         | Frequency                           | 50HZ / 60HZ                           |                       |                       |                         |                       |                       |                        |                         |
|                         | Power Factor                        | 0.8                                   |                       |                       |                         |                       |                       |                        |                         |
|                         | Class of Rating                     | Prime                                 |                       |                       |                         |                       |                       |                        |                         |
|                         | No. of Phase                        | 3                                     |                       |                       |                         |                       |                       |                        |                         |
| Dimensions(mm)<br>LxWxH |                                     | 1500×720×1030                         | 1600×720×1030         | 1850×760×1050         |                         | 2400×860×1220         | 2400×920×1250         | 2700×960×1450          | 2900×1130×1450          |
| Fuel Tank Capacity (ℓ)  |                                     | 70                                    | 75                    | 81                    |                         | 120                   | 170                   | 220                    | 253                     |
| Weight (kg)             |                                     | 600                                   | 800                   | 800                   |                         | 1200                  | 1400                  | 1800                   | 2100                    |



## MCWEL GENERATOR SET



| Generator Model         |                                     | MGC48S                                | MGC65S                | MGC125S                | MGC156S                 | MGC225S                 | MGC260S                 | MGC310S                 | MGC400S                 |
|-------------------------|-------------------------------------|---------------------------------------|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| ENGINE                  | Model                               | 4BT3.9-G1<br>Cummins                  | 4BTA3.9-G2<br>Cummins | 6BT5.9-G1<br>Cummins   | 6BTA5.9-G2<br>Cummins   | 6CTA8.3-G2<br>Cummins   | 6CTAA8.3-G2<br>Cummins  | 6LTA8.9-G2<br>Cummins   | QSM11-G2<br>Cummins     |
|                         | No. of Cylinder                     | 4                                     | 4                     | 6                      | 6                       | 6                       | 6                       | 6                       | 6                       |
|                         | Type                                | Water-Cooled Industrial Diesel Engine |                       |                        |                         |                         |                         |                         |                         |
|                         | Displacement (ℓ)                    | 3.9                                   | 3.9                   | 5.9                    | 5.9                     | 8.3                     | 8.3                     | 8.9                     | 10.8                    |
|                         | Maximum Output<br>(1500rpm/1800rpm) | 40/50KW                               | 55/68.8KW             | 92/115KW               | 130/162.5KW             | 180/225KW               | 203/253.8KW             | 240/300KW               | 321/351KW               |
|                         | Rated Output<br>(1500rpm/1800rpm)   | 36/45KW                               | 50/62.5KW             | 86/107.5KW             | 120/150KW               | 163/203.8KW             | 183/228.8KW             | 220/275KW               | 292/319KW               |
|                         | Fuel Consumption                    | 9.3 ℓ/hr                              | 13.1 ℓ/hr             | 21.4 ℓ/hr              | 29 ℓ/hr                 | 39.8 ℓ/hr               | 44.5 ℓ/hr               | 50.4 ℓ/hr               | 69 ℓ/hr                 |
| ALTERNATOR              | Model (Genfor)                      | GF48                                  | GF65                  | GF125                  | GF156                   | GF225                   | GF260                   | GF310                   | GF 400                  |
|                         | Rated Output<br>(50HZ / 60HZ)       | 30/39KW<br>37/48KVA                   | 40/52KW<br>50/65KVA   | 80/100KW<br>100/125KVA | 100/125KW<br>125/156KVA | 140/180KW<br>175/225KVA | 160/208KW<br>200/260KVA | 200/250KW<br>250/312KVA | 260/315KW<br>325/394KVA |
|                         | Rated Voltage                       | 400/ 440V; 200/ 220V                  |                       |                        |                         |                         |                         |                         |                         |
|                         | Frequency                           | 50HZ / 60HZ                           |                       |                        |                         |                         |                         |                         |                         |
|                         | Power Factor                        | 0.8                                   |                       |                        |                         |                         |                         |                         |                         |
|                         | Class of Rating                     | Prime                                 |                       |                        |                         |                         |                         |                         |                         |
|                         | No. of Phase                        | 3                                     |                       |                        |                         |                         |                         |                         |                         |
| Dimensions(mm)<br>LxWxH |                                     | 2200x920<br>x1350                     | 2200x920<br>x1350     | 2700x980<br>x1470      | 2900x1050<br>x1500      | 3100x1100<br>x1600      | 3100x1200<br>x1700      | 3400x1250<br>x1800      | 3900x1350<br>x2000      |
| Fuel Tank Capacity (ℓ)  |                                     | 100                                   | 130                   | 140                    | 210                     | 270                     | 280                     | 305                     | 500                     |
| Weight (kg)             |                                     | 1100                                  | 1200                  | 1600                   | 1800                    | 2400                    | 2600                    | 3250                    | 3900                    |



## **SAFETY**

- Operate safely in accordance with proper operation manual.
- To prevent trouble and accidents, perform daily and preventive maintenance checks without fail.

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**DISTRIBUTOR:**