

One Unit for All Your Welding Needs!

# All-in-one

### **450A DC Arc Welding Power Source**

DCW-480ESW can perform high-quality welding on pipelines and other welding methods. (Types of welding: Stick, Tig, Mig, Flux-cored, Gouging, etc.)

### **High-Capacity High-Performance Generator**

The unit can also be used as a 15kVA/50Hz high-capacity generator. With a voltage regulation of within ± 1.5%. High-quality AC power can be used while welding is being performed.

### **Low Fuel Consumption and Long Life**

The unit incorporate high-output diesel engine featuring low fuel consumption. Operation at low speed is easy on the engine, facilitating especially long life.

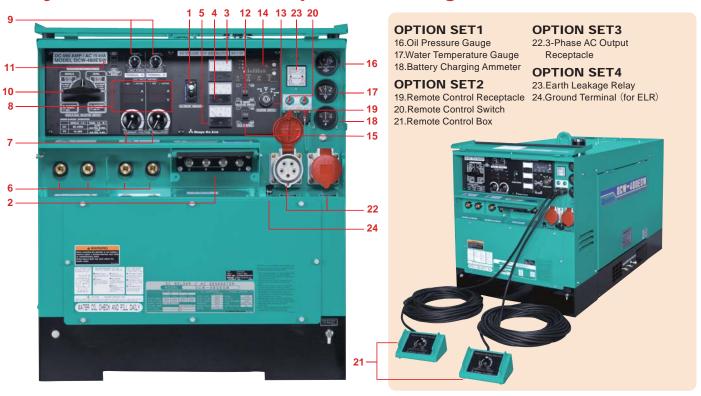
### **Special Design Facilitates Use in Virtually Any Location**

The unit has been designed to operate in virtually all locations, from very hot to cold climates. It is ideal for high-quality welding and as a dependable source of power.



## DCW-480ESW CC/CV DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

### Easy-to-use controls and operation integrated in one location.



1.AC Circuit Breaker 2.3-Phase output Terminal

3.AC Voltmeter

4.AC Ammeter

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5.Frequency Meter6.DC Welding Output Terminal

7.Current / Voltage Regulator 8.Digital Panel

(DC Voltmeter, DC Ammeter)

9.Arc Force Regulator 10.SINGLE-DUAL Selector Switch

11.CC-CV Selector Switch

12.e-mode Switch

13. Starter Switch

14.Engine Monitor Warning Lamp Unit

(Oil Press. / Water Temp. / Charging / Preheat

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Hour Meter • Fuel Meter)

15.Idle Control Switch

#### **SPECIFICATION**

|                      | SP           | EC./I            | MODEL           |           | DCW-480ESW                |      |      |      |      |  |
|----------------------|--------------|------------------|-----------------|-----------|---------------------------|------|------|------|------|--|
| Frequency Hz         |              |                  |                 |           | 50                        |      |      |      |      |  |
| DC WELDING<br>OUTPUT | Ra           | Rated output     |                 |           | CC:17.1/CV:16.4           |      |      |      |      |  |
|                      | Ra           | Rated current A  |                 |           | 450                       |      |      |      |      |  |
|                      | Ra           | Rated voltage    |                 |           | CC:38.0/CV:36.5           |      |      |      |      |  |
|                      | Single       |                  | Current Range A |           | CC:60~480                 |      |      |      |      |  |
|                      |              |                  | Voltage Range V |           | CV:14~37                  |      |      |      |      |  |
|                      | Dual         |                  | Current R       | CC:30~240 |                           |      |      |      |      |  |
|                      |              |                  | Voltage R       | ange V    | CV:14~37                  |      |      |      |      |  |
|                      | Rated Speed  |                  |                 | min-1     | 3000                      |      |      |      |      |  |
|                      | Duty Cycle % |                  |                 |           | 60                        |      |      |      |      |  |
| AC POWER<br>OUTPUT   |              | Rated output kVA |                 | 15        |                           |      |      |      |      |  |
|                      |              | Rated voltage V  |                 | 200       | 220                       | 380  | 400  | 415  | 440  |  |
|                      | Se           | Rated current A  |                 | 43.3      | 39.4                      | 22.8 | 21.7 | 20.9 | 19.7 |  |
|                      | Three Phase  | No. of Phase     |                 |           | 3-Phase 4wire             |      |      |      |      |  |
|                      |              | Power Facter     |                 |           | 0.8 (Lagging)             |      |      |      |      |  |
|                      |              | Excitation       |                 |           | Brushless type (with AVR) |      |      |      |      |  |
|                      |              | No. of poles     |                 |           | 2                         |      |      |      |      |  |
|                      |              | Insulation       |                 | Class F   |                           |      |      |      |      |  |

| ENGINE | Maker/Model              |        | KUBOTA/V1505                       |  |  |  |
|--------|--------------------------|--------|------------------------------------|--|--|--|
|        | Туре                     |        | Water-cooled diesel engine         |  |  |  |
|        | Number of cylinders      |        | 4                                  |  |  |  |
|        | Bore×Stroke              | mm     | 78X78.4                            |  |  |  |
|        | Total displacement       | L      | 1.498                              |  |  |  |
|        | Rated output kW/         | /min-1 | 25.2/3000                          |  |  |  |
|        | Battery                  |        | 80D26R                             |  |  |  |
|        | Fuel                     |        | DIESEL FUEL ASTM NO.2 or eq.       |  |  |  |
|        | Fuel tank capacity       | L      | 45                                 |  |  |  |
|        | Lubricating oil capacity | L      | 6.0 (Oil pan 5.8L+Oil filter 0.2L) |  |  |  |
|        | Cooling water capacity   | L      | 4.85 (Reserve tank included)       |  |  |  |
| SET    | Length                   | mm     | 1540                               |  |  |  |
|        | Width                    | mm     | 720                                |  |  |  |
|        | Height                   | mm     | 885                                |  |  |  |
|        | Dry weight               | kg     | 500                                |  |  |  |
|        | Total weight             | kg     | 558                                |  |  |  |

Intertek

ISO 9001:2015 ISO 14001:2015 Certified

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The specifications given herein are subject to change without notice.



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