



# Service Manual

Our energy working for you.™



## Generator Set with PowerCommand® Control 2100

DQHAA (Spec A-E)

DQHAB (Spec A-E)

# Table of Contents

---

| SECTION  | TITLE   | PAGE |
|----------|---|------|
|          | <b>IMPORTANT SAFETY INSTRUCTIONS</b> .....    | iii  |
| <b>1</b> | <b>INTRODUCTION</b>                           |      |
|          | About this Manual .....                       | 1-1  |
|          | System Overview .....                         | 1-1  |
|          | Test Equipment .....                          | 1-1  |
|          | How to Obtain Service .....                   | 1-2  |
| <b>2</b> | <b>CONTROL OPERATION</b>                      |      |
|          | General .....                                 | 2-1  |
|          | Control Panel Power On/Off Modes .....        | 2-1  |
|          | Front Panel .....                             | 2-3  |
|          | Menu Display and Buttons .....                | 2-5  |
|          | Main Menu .....                               | 2-7  |
|          | Controller Configuration Menu .....           | 2-8  |
|          | Engine Menu .....                             | 2-10 |
|          | Alternator Menu .....                         | 2-12 |
|          | Adjust Menu .....                             | 2-14 |
|          | Faults Menu .....                             | 2-16 |
|          | System Menu .....                             | 2-18 |
|          | History Menu .....                            | 2-20 |
|          | About Menu .....                              | 2-22 |
| <b>3</b> | <b>CIRCUIT BOARDS AND MODULES</b>             |      |
|          | General .....                                 | 3-1  |
|          | Control System Overview .....                 | 3-3  |
|          | Base Board .....                              | 3-4  |
| <b>4</b> | <b>TROUBLESHOOTING</b>                        |      |
|          | General .....                                 | 4-1  |
|          | InPower Service Tool .....                    | 4-1  |
|          | Network Application and Customer Inputs ..... | 4-1  |
|          | Safety Considerations .....                   | 4-2  |
|          | Troubleshooting Procedure .....               | 4-3  |

| <b>SECTION</b> | <b>TITLE</b>   | <b>PAGE</b> |
|----------------|--|-------------|
| <b>5</b>       | <b>CONTROL ADJUSTMENT AND SERVICE</b>                      |             |
|                | General .....  | 5-1         |
|                | Circuit Board Removal/Replacement .....                    | 5-2         |
|                | Modifying Setup Submenus .....                             | 5-3         |
|                | Password Submenu .....                                     | 5-4         |
|                | Crank/Idle Setup Menu .....                                | 5-6         |
|                | Governor/Regulator Setup Menu .....                        | 5-8         |
|                | PCC Control Panel Box Components (Standard/Optional) ..... | 5-12        |
|                | Current Transformer (CT) Installation .....                | 5-16        |
| <b>6</b>       | <b>SERVICING THE GENERATOR</b>                             |             |
|                | General .....  | 6-1         |
|                | Generator/Base Board Isolation Procedure .....             | 6-2         |
|                | Testing the Generator .....                                | 6-3         |
|                | Testing the PMG .....                                      | 6-9         |
|                | Bearing Inspection/Removal/Replacement .....               | 6-10        |
|                | Generator Disassembly .....                                | 6-11        |
|                | Generator Reassembly .....                                 | 6-20        |
| <b>7</b>       | <b>OPTIONAL ENCLOSURE FUEL TANK SYSTEM</b>                 |             |
|                | General .....  | 7-1         |
|                | Wiring Connections .....                                   | 7-1         |
|                | Fuel Transfer Pump .....                                   | 7-2         |
|                | External Fuel Fill Box .....                               | 7-4         |
|                | External Alarm Panel .....                                 | 7-5         |
|                | Rupture Basin Leak Detect Switch Test .....                | 7-6         |
| <b>8</b>       | <b>WIRING DIAGRAMS</b>                                     |             |
|                | General .....  | 8-1         |

**BUY NOW**

**Then Instant Download  
the Complete Manual  
Thank you very much!**

