

# ORSONPOWER®

## INTEGRATED TEST REPORT

According to ISO 8528-5:2018 and ISO3046-1:2002 Standards

### GENERAL INFORMATION

| Item                       | Description                      |
|----------------------------|----------------------------------|
| Manufacturer               | Orson Power Limited              |
| Genset Model               | OPK25                            |
| Engine Brand               | ORSON POWER                      |
| Engine Model               | ODK4ET254G1A                     |
| Alternator Brand           | ORSON POWER                      |
| Alternator Model           | OF22AT-H1                        |
| Controller Model           | DSE 7320 MKII                    |
| Serial Number (Genset)     | DG202605069A                     |
| Serial Number (Engine)     | DE260500117                      |
| Serial Number (Alternator) | OA202605130                      |
| Date of Manufacture        | 21/05/2026                       |
| Test Date                  | 21/05/2026                       |
| Testing Standard           | ISO 8528-5:2018; ISO 3046-1:2002 |
| Test Location              | Orson Power Test Facility        |

### GENERATOR SET TEST RESULTS

| Test Item                               | ISO Clause      | Measured Value | Result |
|-----------------------------------------|-----------------|----------------|--------|
| Rated Frequency                         | 5.1             | 50Hz           | Pass   |
| Rated Voltage                           | 5.1             | 230V, 1 Phase  | Pass   |
| Power factor                            | 5.2             | 1.0            | Pass   |
| Prime Power                             | 5.2             | 22 kVA / 22 kW | Pass   |
| Standby Power                           | 5.2             | 25 kVA / 25 kW | Pass   |
| Voltage regulator type                  | 5.2             | AVR            | Pass   |
| Voltage Stability                       | 6.2.3           | ±1%            | Pass   |
| Speed regulator type                    | 6.2.3           | Electric       | Pass   |
| Frequency Stability                     | 6.2.4           | ±1%            | Pass   |
| Frequency Transient Deviation           | 6.3.3           | ±1.5%          | Pass   |
| Voltage Recovery Time after Load Step   | 6.3.2           | 1.2 sec        | Pass   |
| Frequency Recovery Time after Load Step | 6.3.3           | 1.5 sec        | Pass   |
| Total Harmonic Distortion (THD)         | 6.2.6           | <2%            | Pass   |
| Load Imbalance Tolerance                | 6.3.4           | Supported      | Pass   |
| Noise Level at 7m at 75% PRP            | ISO 8528-10 4.2 | 65 dB(A)       | Pass   |
| Mechanical Vibration                    | ISO 8528-9 5.2  | Normally       | Pass   |
| Controller Functions                    | ISO 8528-4      | Normally       | Pass   |

### TEST SUMMARY

All test results fully comply with ISO 3046-1:2002 and ISO 8528-5:2018 requirements.  
Generator set OPK25 passed all performance and protection tests.  
Final Evaluation: **PASS**

### TEST CERTIFICATION

| Role        | Name | Date       |
|-------------|------|------------|
| Tested by   | 李维峰  | 21/05/2026 |
| Approved by | 刘玉林  | 21/05/2026 |

