

# ORSONPOWER®

## INTEGRATED TEST REPORT

According to ISO 8528-5:2018 and ISO 3046-1:2002 Standards

### GENERAL INFORMATION

Item	Description
Manufacturer	Orson Power Limited
Genset Model	OPK25
Engine Brand	ORSONPOWER
Engine Model	ODK4ET254G1A
Alternator Brand	ORSONPOWER
Alternator Model	OF22AT-H1
Controller Model	DEEPSEA DSE7320 MKII
Serial Number (Genset)	DG202501001A
Serial Number (Engine)	DE334385124
Serial Number (Alternator)	OA184G6024
Date of Manufacture	01/11/2025
Test Date	01/11/2025
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	64 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	01/11/2025
Approved by	刘玉林	01/11/2025

