



# Test Report

**Report No. : FCC2025-00002**

Company : DONGYANG E&P Inc.  
Representative : Jae-Man, Kim  
Address : 3B 3-1, Jinwi Industrial Estate, Cheongho-Ri, Jinwi-Myeon, Pyeongtaek-Si, Gyeonggi-do, South Korea  
451-862

1. Product Name : Wireless Phone Charger  
-Model Name: G6F76-AC500
2. FCC ID : SKU-G6F76AC500
3. Date of Receipt : 2025-01-03
4. Date of test : 2025-01-03 ~ 2025-02-12
5. Testing Method : MPE Test Report
6. Test Result : PASS

**Tested by :** Chang Min, Bae

**Approved by :** Sung Ryul, Kim

*Chang Min Bae*

*Sung Ryul Kim*

1. The test results presented in this report are unrelated to KS Q ISO/IEC 17025 and KOLAS accreditation. The test results relate only to the object tested and are not representative of the quality of the entire product.
2. The report should not be used for other intended purposes including promotional, advertising, or litigation without the prior consent of KTC.
3. The authenticity of this test report can be verified on the KTC website ([www.ktc.re.kr](http://www.ktc.re.kr)).

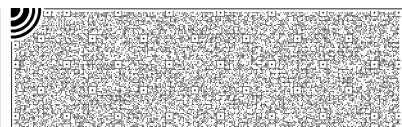
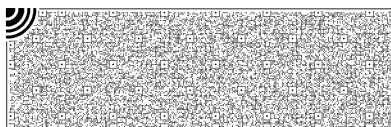
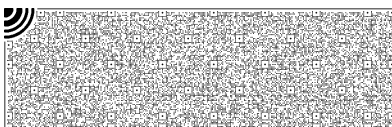
Dated 2025. 02. 17.



**Korea Testing Certification institute**

[www.ktc.re.kr](http://www.ktc.re.kr) [15809] 22, Heungan-daero 27beon-gil, Gunpo-si, Gyeonggi-do, Korea

TEL : +82-1899-7654, FAX : -82-31-428-2926

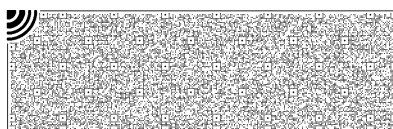
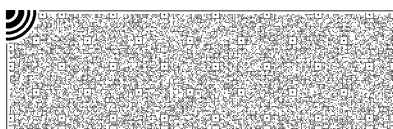
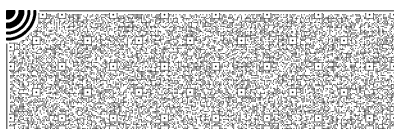


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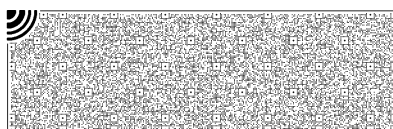
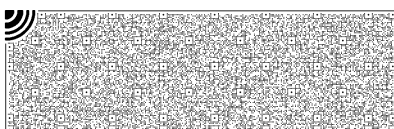
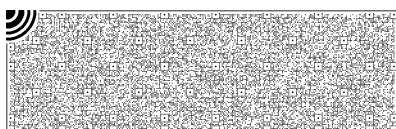
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## 1. General Information

### 1.1. Summary

|                               |                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------|
| Testing Laboratory            | Korea Testing Certification                                                                                |
| Testing location / address    | 22 Heungan-daero 27 beon-gil, Gunpo-si, Gyeonggi-Do, 15809, Republic of Korea                              |
| Designation Number            | KR0006                                                                                                     |
| Test Firm Registration Number | 709616                                                                                                     |
| Applicant                     | DONGYANG E&P Inc.                                                                                          |
| Address of Applicant          | 3B 3-1, Jinwi Industrial Estate, Cheongho-Ri, Jinwi-Myeon, Pyeongtaek-Si, Gyeonggi-do, South Korea 451-862 |
| Manufacturer                  | DONGYANG E&P Inc.                                                                                          |
| Address of Manufacture        | 3B 3-1, Jinwi Industrial Estate, Cheongho-Ri, Jinwi-Myeon, Pyeongtaek-Si, Gyeonggi-do, South Korea 451-862 |
| Product Name                  | Wireless Phone Charger                                                                                     |
| Model Name                    | G6F76-AC500                                                                                                |
| Variant model                 | G6F76-AC600                                                                                                |
| Brand Name                    | KMC                                                                                                        |
| Power Supply                  | DC 12.0 V                                                                                                  |
| Frequency Range               | 111 kHz ~ 205 kHz                                                                                          |
| Modulation                    | ASK                                                                                                        |
| Antenna Type                  | Coil Antenna                                                                                               |
| Hardware Version              | Rev_2                                                                                                      |
| Software Version              | DY001_V0007                                                                                                |



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## 1.2. Test Information

### 1.2.1 Supporting Equipment Used During Test

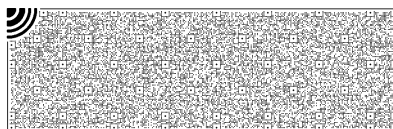
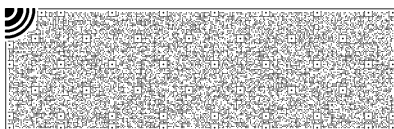
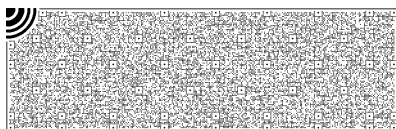
| Use | Manufacturer      | Model       | Comments |
|-----|-------------------|-------------|----------|
| EUT | DONGYANG E&P Inc. | G6F76-AC500 | -        |
| AE  | Standard Load     | -           | -        |

Supplementary information

EUT = Equipment Under Test, AE = Auxiliary / Associated Equipment, SIM = Simulator (Not Subjected to Test)

### 1.2.2 Report revision History

| Issue date | Report No.    | Reason for issue |
|------------|---------------|------------------|
| 2025-02-17 | FCC2025-00002 | First issued.    |
|            |               |                  |



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## 1.3. List of Test Equipment

| Test Equipment Used               |           |              |               |                |               |
|-----------------------------------|-----------|--------------|---------------|----------------|---------------|
| Equipment                         | Model     | Manufacturer | Serial Number | Last Cal. Date | Cal. Due Date |
| Electric and Magnetic Field Probe | EHP-200AC | Narda S.T.S. | 180ZX30107    | 2025-01-13     | 2026-01-13    |

## 1.4. Measurement uncertainty

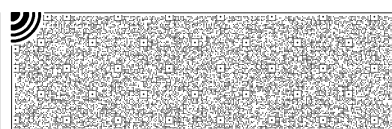
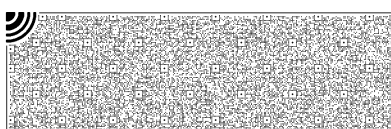
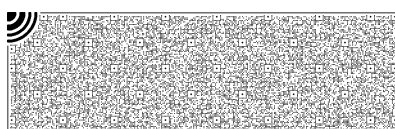
| Parameter               | Condition | Uncertainty    |
|-------------------------|-----------|----------------|
| Electric Field Strength | Radiated  | $\pm 5.67 \%$  |
| Magnetic Field Strength | Radiated  | $\pm 16.62 \%$ |

Note;

-This uncertainty represents an expanded uncertainty expressed at approximately 95% confidence level using a coverage factor of  $k=2$ .

## 1.5. Variant Model

|               | Model Name  | Difference                                                                                                 |
|---------------|-------------|------------------------------------------------------------------------------------------------------------|
| Basic Model   | G6F76-AC500 | For LHD users.<br>The circuit and component layout within the PCB of the product are completely identical. |
| Variant Model | G6F76-AC600 | For RHD users.<br>The circuit and component layout within the PCB of the product are completely identical. |



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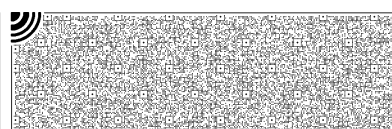
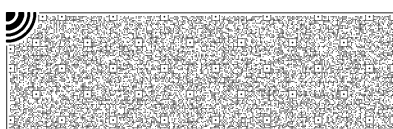
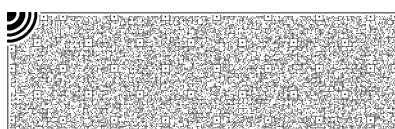
## 2. RF Exposure Evaluation

### 2.1. TABLE 1 - LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range<br>(MHz)                                | Electric Field<br>Strength<br>(V/m) | Magnetic Field<br>Strength<br>(A/m) | Power Density<br>(mW/cm <sup>2</sup> ) | Average Time<br>(minutes) |
|---------------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|---------------------------|
| (A) Limits for Occupational /Control Exposures          |                                     |                                     |                                        |                           |
| 0.3-3.0                                                 | 614                                 | 1.63                                | *(100)                                 | 6                         |
| 3.0-30                                                  | 1842/f                              | 4.89/f                              | *(900/f <sup>2</sup> )                 | 6                         |
| 30-300                                                  | 61.4                                | 0.163                               | 1.0                                    | 6                         |
| 300-1 500                                               |                                     |                                     | f/300                                  | 6                         |
| 1 500-100 000                                           |                                     |                                     | 5                                      | 6                         |
| (B) Limits for General Population / Uncontrol Exposures |                                     |                                     |                                        |                           |
| 0.3-1.34                                                | 614                                 | 1.63                                | *(100)                                 | 30                        |
| 1.34-30                                                 | 824/f                               | 2.19/f                              | *(180/f <sup>2</sup> )                 | 30                        |
| 30-300                                                  | 27.5                                | 0.073                               | 0.2                                    | 30                        |
| 300-1 500                                               |                                     |                                     | f/1 500                                | 30                        |
| 1 500-100 000                                           |                                     |                                     | 1.0                                    | 30                        |

f = frequency in MHz

\* = Plane wave equivalent power density

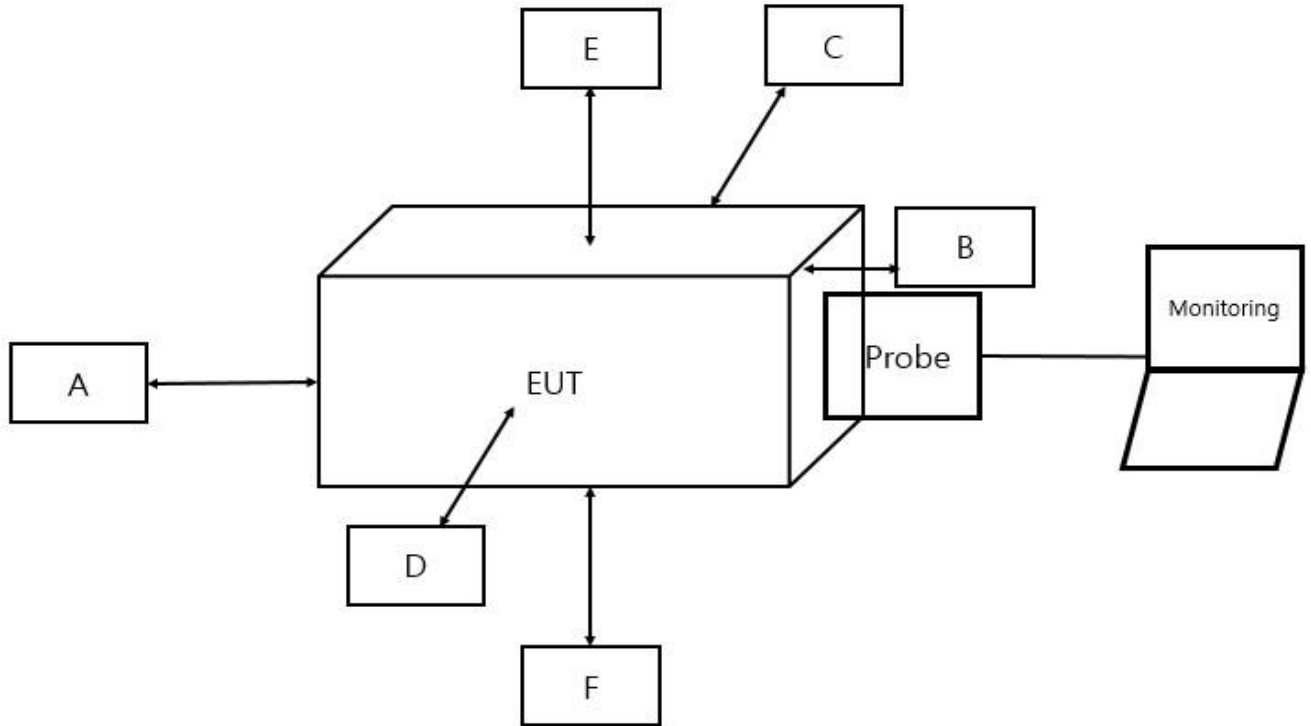


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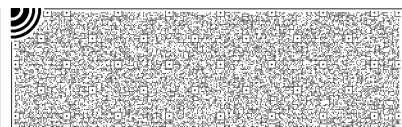
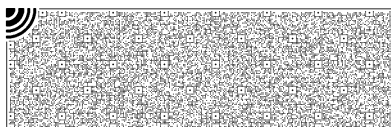
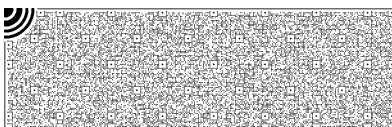
## 2.2. Test Setup

### 2.2.1 EUT Position



### 2.2.2 Test configurations

- 2.1091-Mobile conditions ("generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and [the nearest person]")  
Measurement were from the top and all side of the DUT per KDB680106 D01 v04.
- It were measured in all individual positions(A, B, C, D, E, F).

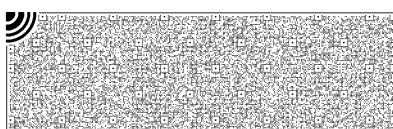
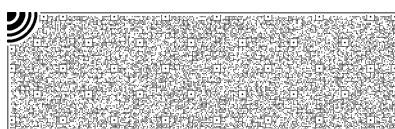


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## 2.3. Equipment Approval Considerations

| Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Device                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 1. The power transfer frequency is below 1 MHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yes.<br>110 kHz ~ 205 kHz                |
| 2. The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes.<br>Maximum output power is 15 watt. |
| 3.A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Yes                                      |
| 4. Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                      |
| 5. The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power. | Yes                                      |
| 6.For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.                                                                                                                                                                                                                       | Yes                                      |



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## 2.4. Test result

|                   |                       |
|-------------------|-----------------------|
| Ambient Temp.     | 23 ± 1 °C             |
| Relative Humidity | 43 %                  |
| Test Result       | PASS (Refer to below) |

### 2.3.1 Charging with 15W (1 % battery status of client device)

-Electric Field

|         | Frequency Range (kHz) | Probe Position A |     | Probe Position B |     | Probe Position C |     | Probe Position D |     | Probe Position E |     | Probe Position F |     | Limit   |
|---------|-----------------------|------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|---------|
| E-field | 119 kHz               | 1.23             | V/m | 1.15             | V/m | 1.45             | V/m | 1.33             | V/m | 2.30             | V/m | 1.88             | V/m | 614 V/m |

-Magnetic Field

|                       | Frequency Range (kHz) | Probe Position A |     | Probe Position B |     | Probe Position C |     | Probe Position D |     | Probe Position E |     | Probe Position F |     | Limit     |
|-----------------------|-----------------------|------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|------------------|-----|-----------|
| H-field <sup>1)</sup> | 119 kHz               | 0.12             | A/m | 0.14             | A/m | 0.46             | A/m | 0.20             | A/m | 0.55             | A/m | 2.01             | A/m | 130.4 A/m |

Note;

In order to simplify the report, the worst case(15W) result are reported. (tested : 5W, 7.5W, 10W, 15W)  
 All test conditions were pre-tested, and the record was taken under the worst condition, which is a 1% battery status in a 15W charging state.

- The end of test report -

