

Established By
 Mobase Electronics

Wireless Charging SYSTEM

Model : MBECWPC2006

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Rev.NO	DESCRIPTION OF CHANGED	CHANGE PAGE	REV. DATE	REV. BY
REV. DATE 2017.05.26		SORT	CHECKED	APPROVED
(PLM MANAGEMENT SYSTEM)		PREPARED		
		A P P R O V A L	HO NAM KIM	GYEONG HEUM CHOI

4. SYSTEM OVERVIEW

4.1. SYSTEM DESCRIPTION

A wireless charger (WPC) installed in a vehicle is a system that transmits power to a mobile phone or a power receiver by power transmission by magnetic induction of a WPC coil and a cell phone coil without a USB connection.

4.2. OPERATION PRINCIPLE

WPC transmits power by magnetic induction to the overlapping area of the coil inner diameter of WPC and the coil inner diameter of WPC with LC resonance (115KHZ).

- 2. INDICATOR operation controll
- 3. CAN communication controll
- W.P.C CIRCUIT
 - 1. Wireless Charging Antenna Coil transfers the power received from BATTERY
 - 2. Check the unidirectional Inventory (ASK) data received from the mobile phone to control the transmission power
 - 3. Control the amount of transmission power through voltage variation
 - 4. Control of rechargeable coil selection function among 3 coils
- Wireless Charging Antenna Coil
 - 1. Delivered power from wireless charging circuit to mobile phone

U S E R M A N U A L

Model name :
SYECLWPC1801

Brand name :
HYUNDAI/KIA

5. RED Article 10.2 Statement

“This device is compliant with the RED article 10.2 requirement because this device is operated at least one Member State without infringing applicable requirements on the use of radio spectrum.”

6. Product specification

SW / HW Version	1.00 / 1.00
Charge Frequency	115kHz
Max Power	6.08 dBuA/m @ 10m
Voltage	DC 12V

FCC warning statement:**15.19**

λ. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

15.21

- Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.
- This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
- End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 10cm between the radiator & your body.

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 10cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 10cm de distance entre la source de rayonnement et votre corps.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.