

CMU MANUAL

- ◆ Product Name : Cell Monitoring Unit
- ◆ Model Name : NBCMUV01
- ◆ Rated Voltage : DC 24 ~ 72.64V, Normal DC 60V
- ◆ Operating Temperature : -40°C ~ +85°C
- ◆ Frequency Range : 2405 ~ 2480 MHz

◆ Product Description :

The BMU and CMU are key components of the Battery Management System (BMS), which monitors the batteries embedded in electric vehicles.

The BMU functions as the control center for the CMUs integrated within the vehicle's battery pack and exchanges data with them.

Conversely, the CMU is attached to the battery cells, where it detects parameters such as temperature and other battery conditions, and communicates this information to the BMU.

Using Electric Vehicle functions

Electric Vehicle provides driving information and high voltage battery information. You can set various electric vehicle functions in **Electric Vehicle**.

Checking the Electric Vehicle screen configuration



On the Home screen of the infotainment system, select **Electric Vehicle**.

No.	Name	Description
1	 (menu)	You can turn off the screen and check the energy information.
2	 (Energy information)	You can check the energy consumption and energy economy history.
3	 (EV charging settings)	You can set the options for various electric vehicle charging.
	Next Departure Time	You can set a scheduled departure time by which charging is complete and the cabin temperature is preconditioned.
	AC charger	You can set the options for AC charger including charging current. For more information, refer to the 'Setting the options for the AC charger' section in this chapter.
	Charging Limit	You can set the charging target for fast charging and slow charging. For more information, refer to the

No.	Name	Description
		'Setting the target battery charge level' section in this chapter.
	Electricity Use Settings (V2L)	You can set the battery discharging limit(%) for the high voltage battery for driving. For more information, refer to the ' Setting a battery discharging limit when using Vehicle to Load (V2L) ' section in this chapter.
4	 (EV settings)	You can set various electric vehicle specialized functions. • Battery conditioning • Utility mode • Plug n Charge • Charging station For more information, refer to the ' Setting electric vehicle specialized functions ' section in this chapter.

Checking energy information

You can check the energy consumption and energy economy history. On the Home screen of the infotainment system, select **Electric Vehicle** > .

Checking the energy consumption



On the infotainment system, select **Electricity Use**.

- You can check the current energy consumption for each vehicle system.

No.	Name	Description
1	Drivetrain	Shows the percentage of instantaneous and regenerative energy consumed by the motor to drive the vehicle and the percentage of the power driving system used in total power used since starting the vehicle.

No.	Name	Description
2	Electronics	Shows the power and energy consumption used by the vehicle system, including the instrument cluster, infotainment system (speaker and navigation), headlight, vehicle control unit, etc., and the percentage of the power vehicle system used in total power used since starting the vehicle.
3	Climate	Shows the power and energy consumption used by the air conditioner or heater and the percentage of the power climate system used in total power used since starting the vehicle.
4	Battery Care	Shows the momentary power and energy consumption used when increasing and cooling down the battery temperature to maintain optimal battery performance and the percentage of battery temperature control mode (Battery Care mode) used in the total power used since starting the vehicle.

FCC Part 15.19

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.

FCC Part 15.21

Any changes or modifications (including the antennas) to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

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.

FCC and IC RF Radiation Exposure Statement: This equipment complies with FCC and IC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

RF du FCC et IC d'exposition aux radiations: Cet équipement est conforme à l'exposition de FCC et IC rayonnements RF limites établies pour un environnement non contrôlé. L'antenne pour ce transmetteur ne doit pas être même endroit avec d'autres émetteur sauf conformément à FCC et IC procédures de produits Multi-émetteur.

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.