

Welcome to our “e-REW Express”. HK Electric is actively engaged in promoting the wider use of electric vehicles (EVs) to improve roadside air quality. The Company has commissioned 11 EV charging stations at various locations on Hong Kong Island in which four are quick charging stations.

We currently provide technical advisory services and organise visits for incorporated owners/management companies to assist them to set up their own chargers within their buildings. In this issue of ‘e-REW Express’, we will highlight the general requirements for erecting Electric Vehicle (EV) Charging Facilities and we hope you will find the information useful and handy.

For continuous improvement, your feedback on our “e-REW Express” is most welcome. Simply contact us via email mail@hkelectric.com or Customer Installation Section hotline at 2887 3455.

Requirements for erecting EV Charging Facilities

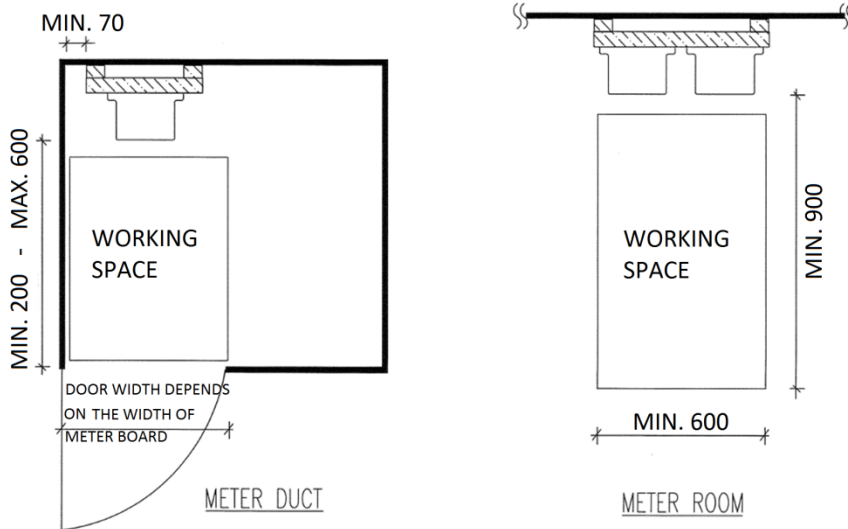
1. General Arrangement

- Electric vehicle charging facilities are fixed electrical installations and shall comply with the relevant requirements of the Electricity Ordinance (Cap. 406) and its subsidiary Regulations.
- Electrical work on EV charging facilities including design, installation, commissioning, inspection, testing, maintenance, modification and repairing shall be carried out by registered electrical contractors and registered electrical workers of the appropriate grade.
- All EV Charging Facilities which are connected to, or intended to be connected to HK Electric’s supply of electricity must comply with HK Electric’s Supply Rules, the Electricity (Wiring) Regulations and other relevant Government Ordinances and Regulations.
- Please also ensure that the electrical installations shall comply with the <<[Technical Guidelines on Charging Facilities for Electric Vehicles](#)>> and <<[Technical Guidelines for Electric Vehicle \(EV\) Charging-enabling for Car Parks of New Building Developments](#)>> published by the Electrical and Mechanical Services Department and Environment Bureau/ Electrical and Mechanical Services Department respectively.
- EV Charging Facilities shall be supplied and metered appropriately as per HK Electric’s requirement.

- Electrical loads of EV Charging Facilities should be evenly distributed as reasonably practicable.
- An earth leakage protective device shall be provided for each final circuit. Residual current device (RCD) with characteristics of type A and residual operating current not exceeding 30mA is acceptable.
- Electric cable of each final circuit shall be selected based on the design current of the EVSE and taking into account the constraint of voltage drop in the circuit in accordance with the relevant requirements of the latest Code of Practice for the Electricity (Wiring) Regulations. A larger size electric cable may be used to facilitate future upgrade. In connection with this, a conductor size suitable for carrying a minimum rated current of 32A is recommended.
- Means of preventing unauthorized usage of EV Charging Facilities such as housing the socket outlet in a padlocked box or using an access card for energizing charging facilities may be provided as necessary.

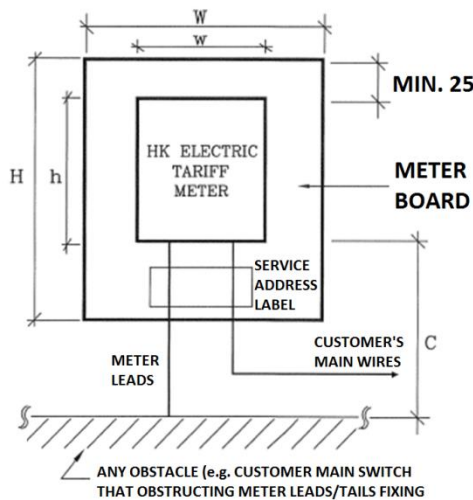
2. Metering Arrangement

- Tariff metering equipment is important to HK Electric and customers in the determination of electricity consumption. Tariff meters shall be installed in a clean and dry indoor location which is not exposed to weather, mechanical damage, vibrations, extremes of temperature or dampness etc. They shall be under conditions which are suitable for meter installation, reading and maintenance. The meter position shall be readily accessible from communal area at all times with reference to the HK Electric's Guide to Connection of Supply.
- Supply to EV Charging Facilities should normally be derived from the electric supply equipment installed on the same floor level. HK Electric's meters for individual parking spaces shall be installed inside a communal meter room at each car park level.
- HK electric's meter shall be electrically connected at a position immediately after the customer's main switch and the metering point of an installation shall be at a position as close to the origin of the supply source as practicable.
- Meter position shall satisfy the requirements for meter reading, meter fixing and meter maintenance. For details, please refer to drawing Nos. GCS/5/14, GCS/5/15 and GCS/5/18.



NOTE: ALL DIMENSIONS ARE IN MM.

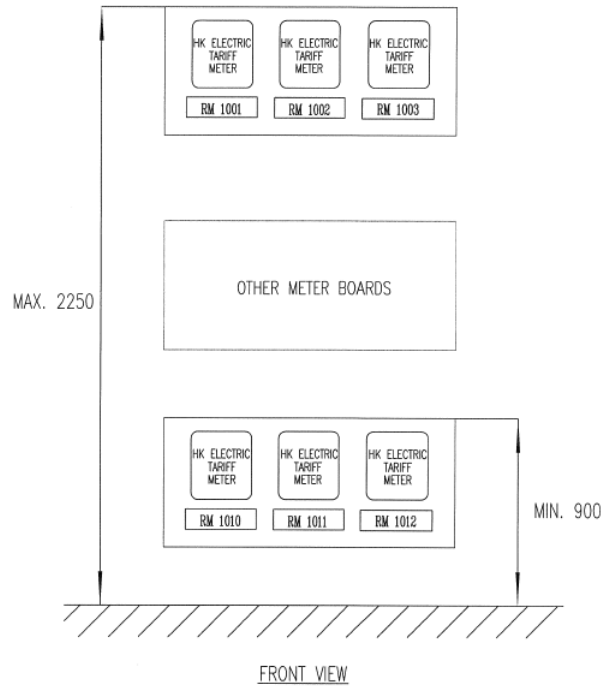
Drg. No. GCS/5/14
MINIMUM SPACE REQUIREMENTS FOR METER DUCT/ROOM



METER TYPES	MAIN SWITCH RATING (A)	METER LEADS/ TAIL SIZE (sq. mm)	MINIMUM CLEARANCE FOR METER TERMINATION	TARIFF METER DIMENSIONS			METER BOARD DIMENSIONS	
				C	h	w	d	H
1- ϕ	≤ 60	25	150	180	140	130	280	210
3- ϕ	≤ 100	35	200	280	200	170	430	300
3- ϕ	>100 & ≤ 125	50	200	290	215	170	440	300
3- ϕ	> 125	4	250	330	200	170	480	300
11kV/22kV	≤ 200	4	250	330	200	170	480	300

NOTES: 1. RECOMMENDED SIZE OF ADDRESS LABEL : 120 x 60 mm².
 2. UNLESS OTHERWISE STATED, ALL DIMENSIONS ARE IN mm.

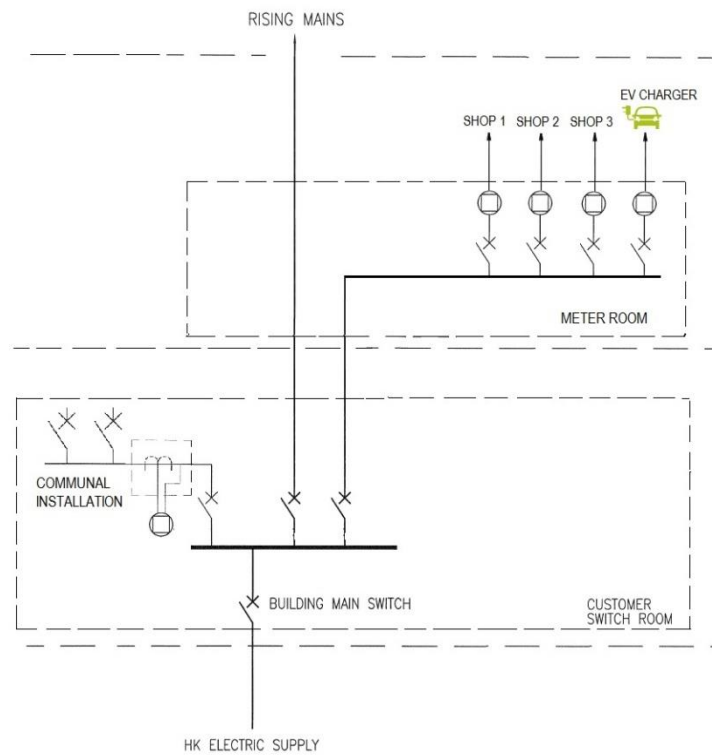
Drg. No. GCS/5/15
METER BOARD/LEADS REQUIREMENTS



NOTE : ALL DIMENSIONS ARE IN mm.

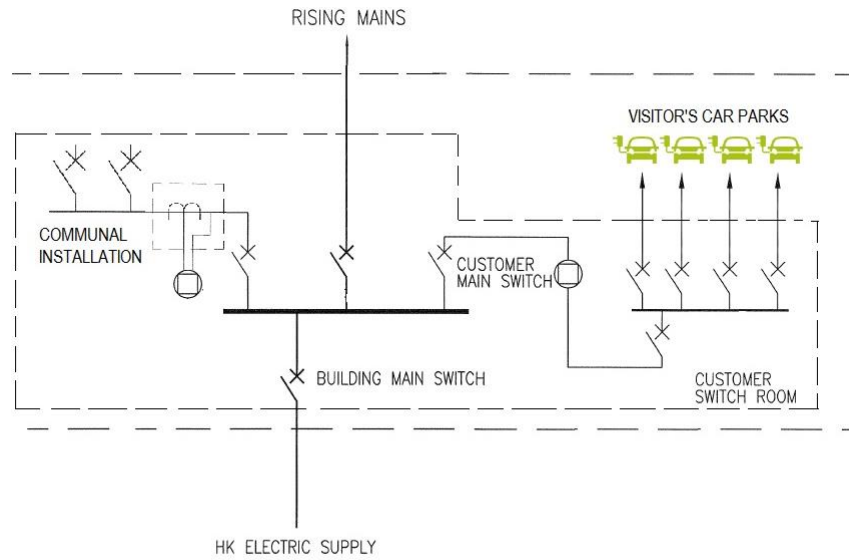
Drg. No. GCS/5/18
METER BOARD ARRANGEMENT FOR
METER ROOM / SWITCH BOARD

- Individual meters may be applied for each private parking space with EV Charging Facilities owned by individual customers (Refer to DRAWING A).



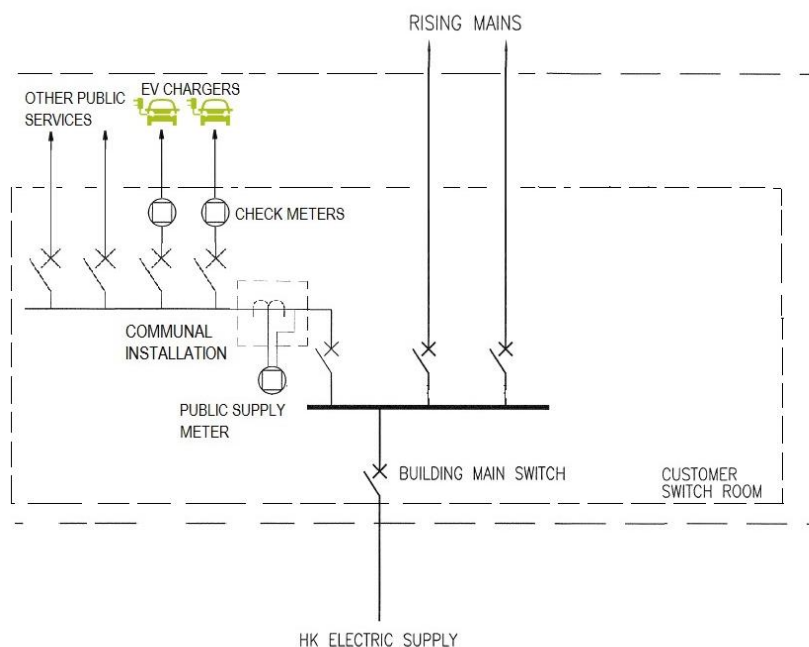
DRAWING A

- A single meter may be applied for several parking spaces with EV Charging Facilities (Refer to DRAWING B).



DRAWING B

- HK Electric may allow customers to install their check meters / timers for recovering electricity consumption charges for EV charging via metered communal installations (Refer to DRAWING C). This is restricted for EV charging installations only and customers are required to obtain prior approval of HK Electric by submitting a standard form (**Form EV1**). The recovery of electricity consumption charges for non-EV charging installations is still not allowed.



DRAWING C

致：香港電燈有限公司
客戶服務部
(傳真號碼：2510 7721)

機密
CONFIDENTIAL

To：The Hongkong Electric Co., Ltd.
Customer Services Department
(Fax No.：2510 7721)

申請批准收回電動車充電之電力費用
APPLICATION FOR APPROVAL
TO RECOVER THE CHARGES FOR ELECTRICITY CONSUMPTION
FOR ELECTRIC VEHICLE CHARGING

供電地址：_____

Service Address

賬戶號碼：_____

Account No.

電動車充電地點(泊位號碼)：_____

EV Charging Location (Parking Bay Number)

充電費用的計算/量度方法： 監察電表 計時器
Methods to calculate/measure the charges for EV charging Check Meter Timer

其他(請註明)：_____

Others (Please specify)

我們(業主/業主立案法團/管理處/公司*)現保證上述的設施只作電動車充電之用途。我們明白，我們必須聘請註冊電業承辦商進行有關工程。如該裝置被用作其他用途，我們須負全責，將其改回原本之安排，貴公司亦保留追索的權利。現附上顯示貴公司電表及連接電動車充電供電設備的線路圖以供參照。

We/I (Landlord/Incorporated Owners/Management Office/Company*) confirm that the above installation is solely for the purpose of electric vehicle charging. We/I understand that we/I have to employ a registered electrical contractor to carry out the electrical work. Should the installation be used for other purpose, we/I will be fully responsible for the reinstatement work to revert to its original arrangement and HK Electric reserves the right of recourse of the above. A schematic wiring diagram showing the connection between the HK Electric's meter and the electric vehicle charging facilities is attached for reference.

註冊客戶姓名：_____ 電話號碼：_____

Name of Registered Customer

Telephone No.

註冊客戶簽名/蓋章：_____ 日期：_____

Registered Customer's Signature / Chop

Date

*請刪去不適用項目 Delete as appropriate

客戶提供個人資料純屬自願性質。所收集的個人資料將會作本公司營運之用，該等資料亦可透露予第三者機構以幫助本公司運作。如客戶不提供所需資料，本公司可能無法提供有關服務。要求查詢及改正個人資料，可郵寄城市花園道廿八號電燈中心九樓客戶資料保護主任收。有關本公司的客戶資料政策說明書或查詢，請瀏覽本公司網頁 www.hkelectric.com、電郵至 customerservices@hkelectric.com、致電 2887 3411、傳真至 2510 7667 或郵寄城市花園道廿八號電燈中心九樓。

The provision of personal data is voluntary. Personal data collected will be used in matters relating to the operations of the Company or may be disclosed to third party organisations which assist in the Company's operation. Failure to provide the data requested may mean that the Company is unable to supply the relevant services. Data access and correction requests may be addressed to the Customer Data Protection Officer, 9/F Electric Centre, 28 City Garden Road. For a full copy of the Company's Statement of Customer Data Policy or for enquiry, please refer to website: www.hkelectric.com, email us at customerservices@hkelectric.com, call us at 2887 3411, fax to 2510 7667 or write to 9/F Electric Centre, 28 City Garden Road.

EV 1

Rev. 11/2014

We are pleased to provide our advisory service to Registered Electrical Contractor/Worker (REC/REW) regarding the requirements of Electric Vehicle (EV) Charging Facilities. If you require any further assistance and information, you may call our EV hotline at telephone number 2510 2701 or via the dedicated email address ev@hkelectric.com.