



澳能建設控股

(股份代號: 1183.HK)

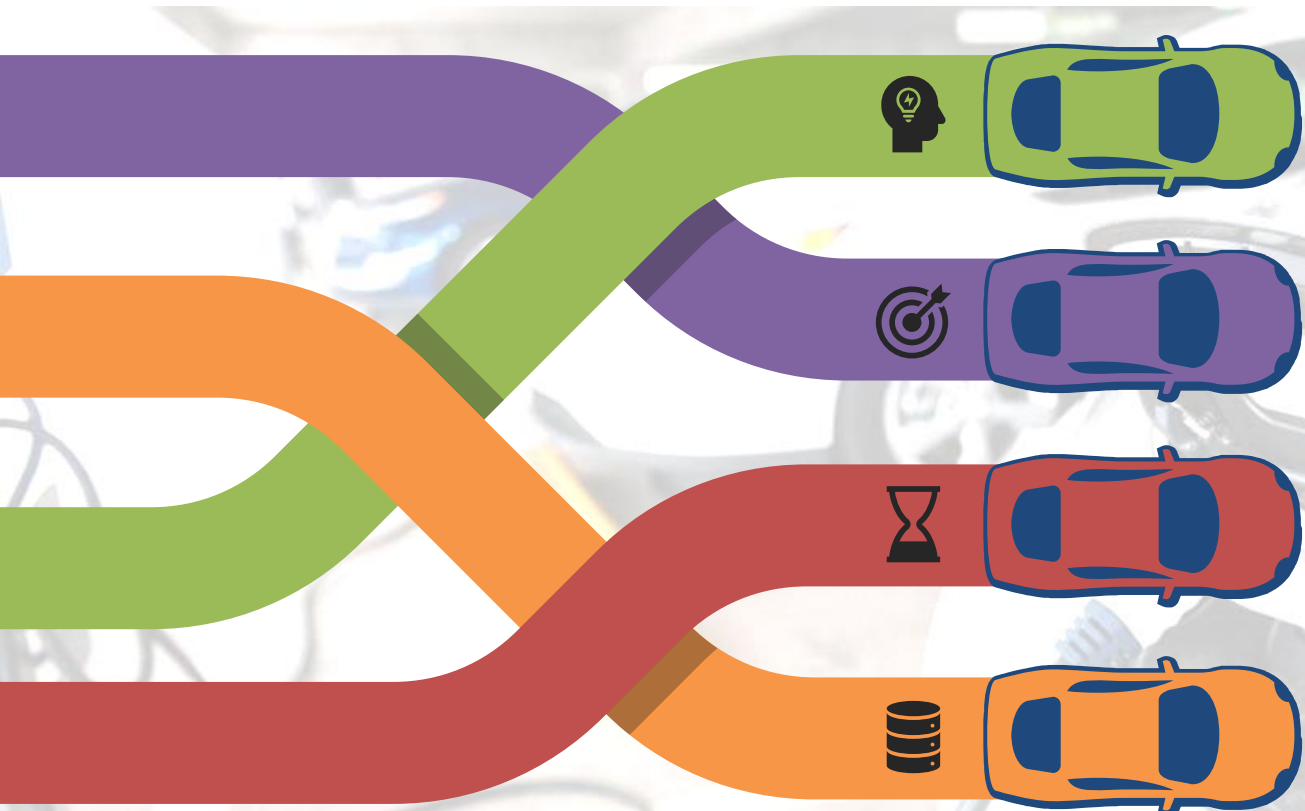
自由充 智能共享充電系統

MU Smart Sharing Power

EV Charging System

為何要換電動車?

Why should you change to Electrical Vehicle (EV)?



為環保出力

Protects the environment.

優先享用電動車的好處

Enjoy the benefits of electric vehicle

低維修保養成本

Low maintenance cost

可用節省汽油車油費支付電動車
日常費用:

電動車:20kWh / 100 km ,
\$0.24/km

電油車:\$1.0/km

Saving fuel expense for EV maintenance

現有充電系統安裝問題

Problem of current EV charging system



「大廈現有電力不足」.....
'Limited Power Supply'

「安裝電錶費用高」.....
'High installation cost'

「沒有自己獨立專用的充電車位」.....
'I want to have my own charging space'

「申請安裝電動車充電電錶手續
十分麻煩」.....
'Complicated application of EV
charging meter'

解決方案：自由充共享電車供電系統 一站式服務

Solution: MU EV charging system – one stop service



低成本安裝
Low installation cost



方便, 不用申請
Convenient set up, no application is needed



獨享充電位就在你的泊車位旁邊
Private EV charging meter right next to your own parking space



每小時可充電105公里(22KW/3 Ph)
Charging speed of 105km/hr(22KW/3 Ph)



24小時維修保養服務
24 Hr Maintenance and Repairing Service



為何選擇「自由充」 Why should you choose MU System?

「自由充」的優點 Advantages of MU System



1

能與最多數量的充電器共享電源網絡並快速充電

105公里/小時 (22kW/3 Ph), 或
55公里/小時 (11kW/3 Ph)

Sharing power supply network with a maximum number of chargers and fast charging time
105 km/hr (22kW/3 Ph), or
55 km/hr (11kW/3 Ph)



2

安裝成本低

Low installation cost



3

簡單·方便和獨立的付款流程
Easy, friendly and independent payment process



4

24小時維修服務

24-hour maintenance service

為何選擇「自由充」 Why should you choose MU System?

「自由充」的優點 Advantages of MU System



充電流程 (已註冊電車) Charging process for registered EV



01 

進入停車場
Enter the car park

02 


電動車停泊在
已安裝充電樁的停車位內
Park your EV at the parking
space with charging pile

03 

插上車主充電線
在充電樁上
自動開始充電
Plug your EV with your
charger, charging will start
automatically

04 

當車主取車前
先進入App內
選擇停止充電模式後
取出充電線完成充電
Disable the charging mode
in the APP before removing
the charger

05 

MU 控制中心程序
自動讀取每台電動車的獨立充
電量作為每月支付電費紀錄
MU Control Center
automatically reads the
charging data of each EV
and calculated related fees
for monthly payment record

充電流程 (未註冊電車) Charging process for not registered EV



01 

進入停車場
Enter the car park

02 

電動車停泊在
已安裝充電樁的停車位內
Park your EV at the parking
space with charging pile

03 


用MU充電App
掃描充電樁上的QR Code
插上充電線在充電樁上
開始充電
Scan the QR Code on the
charging pile with MU
charging APP and start
charging

04 

在App內選擇開始充電模式
啟動充電
Select Charging mode in the
APP to enable charging

05 

當車主取車前
先進入App內
選擇停止充電模式後
取出充電線完成充電
Disable the charging mode
in the APP before removing
the charger

06 

MU 控制中心程序
自動讀取每台電動車的獨立充
電量作為每月支付電費紀錄
MU Control Center
automatically reads the
charging data of each EV
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使用 MU APP 啟動充電樁

Turn on the Socket with MU APP



掃描QR code 啟動充電樁
Scan the QR code to begin the charging process

插上自己電車的充電線 Plug your EV with your EV charger



在MU App內選擇充電模式啟動/停止充電

Select Charging mode in MU APP to enable/disable charging



MU APP 系統其他功能 Features of the MU APP



✓ 完成充電信息自動推送
Auto-notification of charging completion

✓ 實時充電百分比顯示
Real-time charging percentage

✓ 充電過程警報自動推送
Auto-notification of warning message

✓ 當月總充電度數及每次充電度數統計數據顯示
Summary of monthly charging capacity and detail data of each charging service



大型停車場電動車充電方案

Charging solutions for electric vehicles in large parking lots

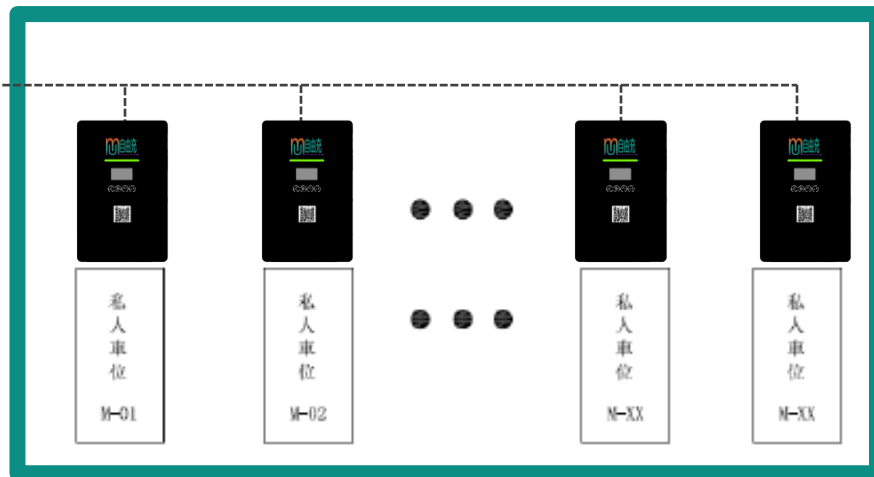


供電系統
Current Power
System

電動車供電系統
EV Charging System



全自動充電控制系統
Automatic charging
control system



共用一個充電系統供電網絡，實現每一車位一個充電插座

Implement the charging system for power supply network, realizing 1 charging socket for each parking space

智能排序充電時間，提高充電系統的使用率及降低全大樓充電總功率！

Intelligently arrange the charging time to utilize the charging system and reduce the total charging power in the whole building!

自由充 簡易充電樁型號 MU-W11

MU Simple Socket Model MU-W11



Simple Socket MU-W11

具備功能Compatibilities

每小時充電約55KM, 11KW/3phase/16A
Charging speed 55 km/ hr, 11KW/3phase/16A

IP 65 防水功能
IP 65 Waterproofing

過載及漏電保護功能($I_m \geq 30\text{mA}$)
Over current & earth leakage protection

自動供電控制功能
Automatic power control system

簡易充電樁型號 MU-W11 功能介紹

Components and functions inside SimpleSocket MU-W11



簡易充電插座

MU-W11



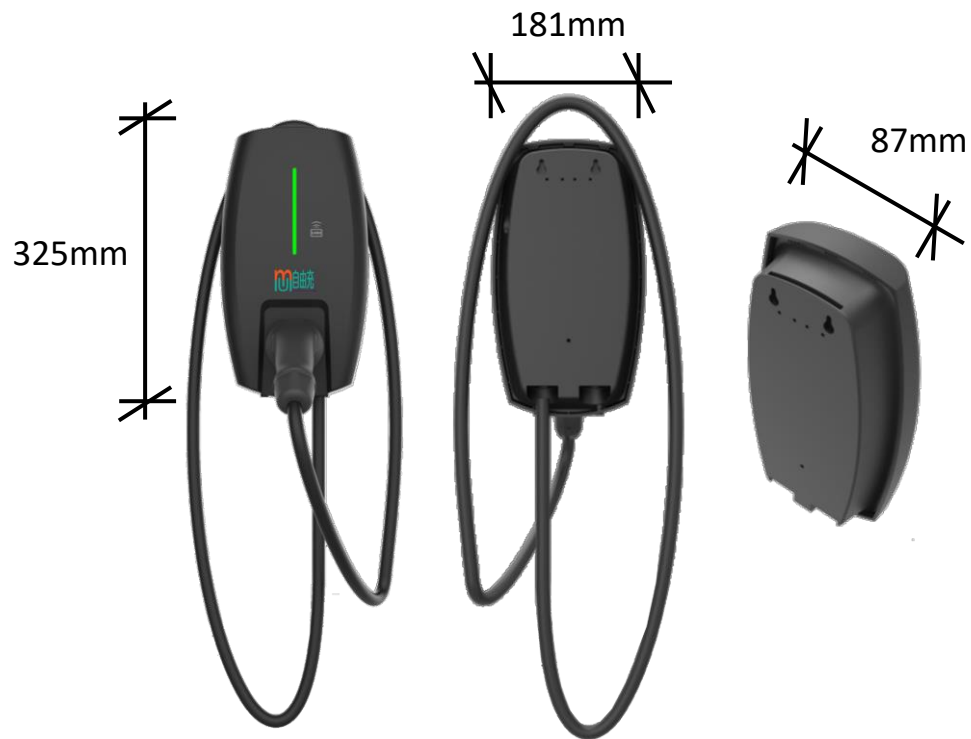
功能 Capabilities

具有漏電保護, 超載保護, 網絡通訊等功能

- German TÜV Rheinland and CE marked products
- Minimal size, streamline design
- Home use with intelligent App control
- Intelligent operation by App and cashless payment
- Universal Type 2 socket, optional with Type 1/Type 2 charging cable
- App operation or RFID authentication or plug and play
- Wall-mount or floor-stand installation
- RCD Type A and 6mA DC residual current protection
- MID certified energy meter with accurate measurement

簡易充電樁型號 MU-W11自由充掛牆式插座尺寸

SimpleSocket MU-W11



Product dimension
325*181*87mm

自由充 簡易充電樁型號 MU-W22

MU Simple Socket Model MU-W22



Simple Socket MU-W22

具備功能Compatibilities

每小時充電約105KM, 22KW/3phase/32A
Charging speed 105 km/ hr, 11KW/3phase/16A

IP 54 防水功能
IP 54 Waterproofing

過載及漏電保護功能($I_m \geq 30\text{mA}$)
Over current & earth leakage protection

自動供電控制功能
Automatic power control system

掛牆式簡易充電樁型號 MU-W22 功能介紹

Components and functions inside SimpleSocket MU-W22



掛牆式充電插座 Wallbox MU-W22



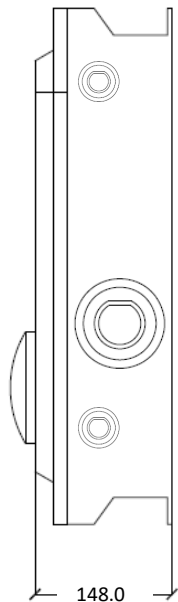
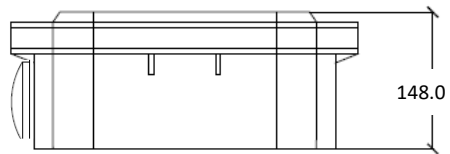
功能 Capabilities

具有漏電保護, 超載保護, 電流量計數錶, 網絡通訊等功能

- German TÜV Rheinland and CE marked products
- Temper glass panel, modern design
- Business use with intelligent App control
- Intelligent operation by App and cashless payment
- Universal Type 2 socket, optional with Type 1/Type 2 charging cable
- App operation or RFID authentication or plug and play
- Wall-mount or floor-stand installation
- RCD Type A and 6mA DC residual current protection
- MID certified energy meter with accurate measurement

簡易充電樁型號 MU-W11組合式自由充掛牆式插座尺寸

SimpleSocket MU-W22



充電功率及時間

Charging Speed Explained: How much reach can be recharged in one hour?

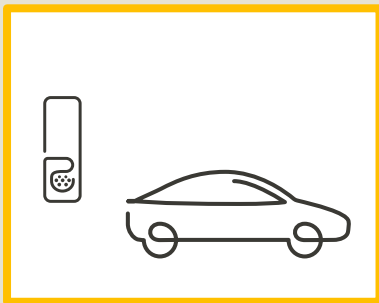


- 3.7 kW/ 單相供電式 及 22 kW/ 三相供電式
- 例子: 20 kWh / 100 km 的電動車
Example: EV with a consumption of 20 kWh / 100 km

充電一小時

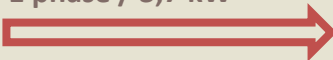
1 hr

charging



單相電源充電插: 18.5 公里/小時

1 phase / 3,7 kW $3,7 / 20 * 100 = 18,5 \text{ km/hr}$



3 phase / 22 kW $22 / 20 * 100 = 105 \text{ km/hr}$



三相電源充電插: 105 公里/小時



Thank you for listening!