



Commercialize Your EV Chargers in Just ‘1-2-Charge’

TONY+PATRICK transforms EV charger owners to EV charger operators using **TP+ SmartPay®**, the most reliable and convenient EV charger payment platform.

- One-stop provider for hardware, software, solutions, and services.
- Tailored-made platform and cross-platform solution is the key success.
- Charging solutions available in every scale and market.



We transform machines to intelligent equipment from Air Compressor, Laundry Equipment, and now EV Chargers.

TONY+PATRICK has years of experience in designing and developing IOT-based solutions that transform not only the equipment but the way a business does. We enable an ordinary machine to accept payment, alert users, communicate with a datacenter, and self-learn.

Everyone realizes huge potential of EV Charging infrastructure that will help the world toward zero carbon community. But it will only happen if the right solution is in place. That is why **TONY+PATRICK** is here for you.

Bring energy innovations to life

To achieve The Global Goals of having Affordable and Clean Energy, **TONY+PATRICK** is offering not only the EV Charger. Our ecosystem ranges from solar panels, energy storage units, and the energy management system (EMS®).



Renewables

Solar energy is a key to achieving a decentralize energy system. Our robust solar panels can last longer with only small deterioration in energy conversion performance.



EV Solutions

EV plays a vital role in reducing carbon emission. Same to EV Charging infrastructure and technologies. TP+ is offering a plug-&-play EV charging solutions that help you commercialize the EV chargers.



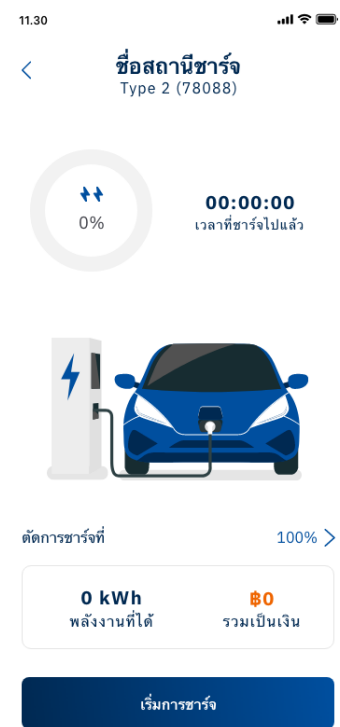
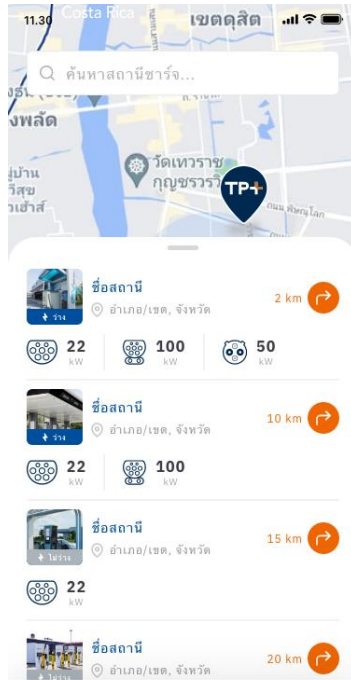
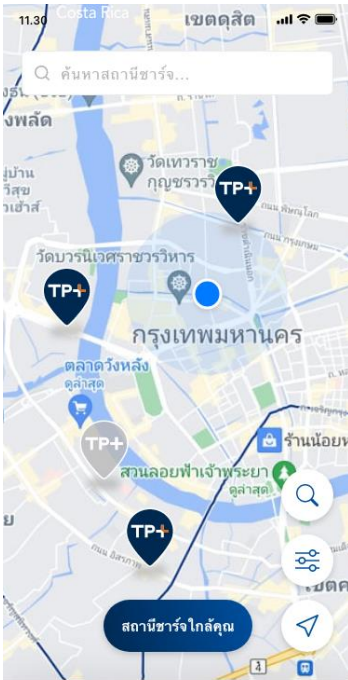
Energy Management System (EMS®)

TP+ is developing EMS® to manage real-time high-volume energy data traffic. Without EMS®, all parts of clean energy ecosystem cannot work synchronously.



Energy Storage System (ESS)

With the ESS, we can achieve the clean energy after dusk. The ESS also offers flexibility in local energy management between energy devices such as home and EV. **TP+** uses the latest battery technology to extend the ESS's service lifetime more than 10 years.



We are the EV Charger platform enabler.

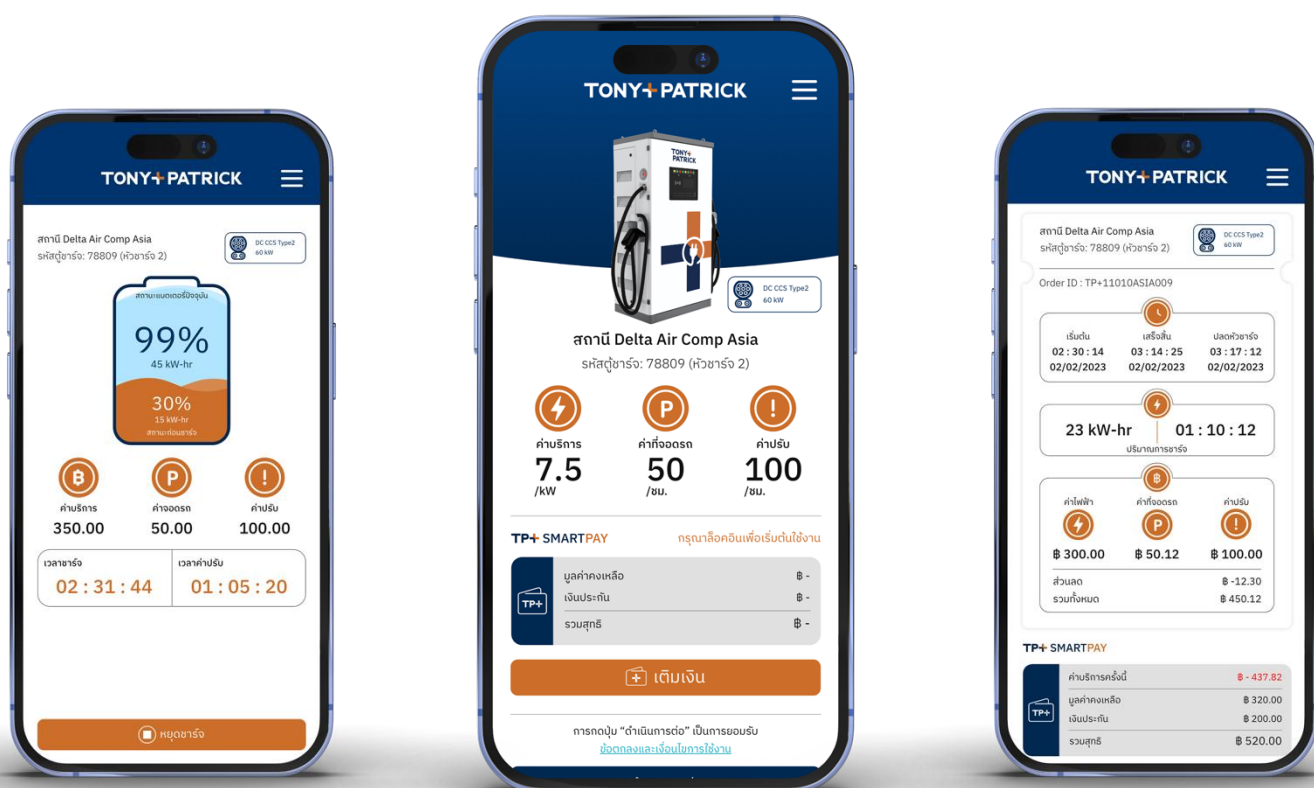
To support the EV platform operation,
only **TP+** technology is the right answer.

With our advanced engineering and developer teams, **TONY+PATRICK**, is pioneering one of the first EV Charger platform server in Thailand. Our protocol is complied with Open Charge Point Protocol (OCPP) so that our platform can be seamlessly connected with any EV Charger anywhere around the world.

Scan-Pay-Charge®

3 simple steps that TONY+PATRICK has your back.

Scan-Pay-Charge® solution is exclusively developed by **TONY+PATRICK** to allow an EV Charger accept payments fast and secure. Our sophisticated backend can support diverse payment channels as well as a lovely loyalty program.



VISA



true money
wallet



PromptPay

TONY+PATRICK

*Online transactions are subject to a processing fee collected by payment service providers.

TONY+PATRICK

Smart AC EV Charger

Scan-Pay-Charge®

EVCBS Series



Model		EVCBS-A-1-7kW-1.6	EVCBS-A-3-22kW-1.6
Input Power	Phase	1	3
	Frequency (Hz)	50/60	
Output Power	Phase	1	3
	Max Current (A)	32	
	Rated Power (kW)	7	22
	RCD	Type B	
Environment	Temperature (°C)	-35 – +60	
	Altitude (m)	< 2,000	
	Humidity (%)	< 95% (non-condensing)	
HMI	Display	2.4-in LCD	
	Language	English	
	User authentication	RFID, Ethernet, WiFi, 4G*	
	Indicator	Power Supply, Charging Status, System Error	
Protection		Over voltage, Under voltage, Over current, Short circuit, Surge protection, Over temperature, Ground fault, Residual current	
Communication	Charging Protocol	OCPP1.6	
	Interface	Ethernet, WIFI, 4G	
Mechanical	Ingress Protection	IP55	
	Cooling	Air cooled	
	Wire length	5 m	
	Dimension (mm W x H x D)	280 x 400 x 160	
	Connector	Type II	
Scan-Pay-Charge®		Supported	

TONY+PATRICK

<https://www.tony-patrick.com/ev-charger>

Additional information

We reserve the right to make technical changes or modify the contents of this document without prior notice. Regarding purchase orders, the agreed particulars shall prevail. TONY+PATRICK does not accept any responsibility whatsoever for potential errors or possible lack of information in this document. We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of TONY+PATRICK.

Copyright© 2022 TONY+PATRICK - All rights reserved.

TONY+PATRICK

TONY+PATRICK

Smart DC EV Charger

Scan-Pay-Charge®

EVCLB Series



Model		EVCLB-D-3-60kW- 1.6	EVCLB-D-3-120kW- 1.6	EVCLB-D-3-240kW- 1.6	EVCLB-D-3-300kW- 1.6
Input Power	Phase	3 Phase 380 ± 15%			
	Frequency (Hz)	50/60			
	Current (A)	<100 A	<200 A	< 400 A	< 460 A
Output Power	Electric Current	DC			
	Voltage Range (V)	200-750	200-750	200-1000	200-1000
	Voltage Range – Constant Power Mode (V)	300-750	300-750	300-1000	300-1000
	Current Range (A)	2-150	5-400	5-400	5-500
	Ripple Coefficient	≤ ±0.5%			
	THD	≤ 5%			
	Max Efficiency	> 94%			
	Rated Power (kW)	60	120	240	300
Environment	Temperature (°C)	-30 – +50			
	Altitude (m)	< 2,000			
	Humidity (%)	< 95% (non-condensing)			
	Noise (dB)	55-80			
HMI	Display	7-in Capacitive HD Touchscreen LCD			
	Language	English			
	User authentication	RFID, Password, Ethernet, WiFi, 4G*			
	Indicator	Power Supply, Charging Status, System Error			
Protection		Over voltage, Under voltage, Over current, Short circuit, Surge protection, Over temperature, Ground fault, Residual current			
Communication	Charging Protocol	OCPP1.6			
	Interface	Ethernet, WIFI, 4G			
Mechanical	Ingress Protection	IP54			
	Cooling	Forced fan cooling			
	Wire Length	5 m			
	Dimension (mm W x H x D)	740 x 590 x 1600			900 x 900x 1900
	Connector	CCS Type II			
	Number of Connector	2			
Scan-Pay-Charge®		Supported			

TONY+PATRICK

<https://www.tony-patrick.com/ev-charger>

Additional Information

We reserve the right to make technical changes or modify the contents of this document without prior notice. Regarding purchase orders, the agreed particulars shall prevail. TONY+PATRICK does not accept any responsibility whatsoever for potential errors or possible lack of information in this document. We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of TONY+PATRICK. Copyright© 2022 TONY+PATRICK - All rights reserved.

TONY+PATRICK

For more information, please contact:

TONY+PATRICK
EV Solutions

112/6 Bangkhuntien Chaitalay Rd

Samdam, Bangkhuntien

Bangkok 10150 Thailand

e: sales@ab-innovations.co.th

t: (+66) 084 993 9113

tony-patrick.com/ev-charger

© Copyright 2022 **TONY+PATRICK**. All rights reserved.

Specifications subject to change without notice.