



PCS

Power Conditioning System

Power Conditioning System

To support the global energy transition and the rapid growth of energy storage applications, TECO leverages decades of experience in power electronics and automation to introduce a high-efficiency Power Conditioning System (PCS). This system provides a stable and reliable core solution for smart energy applications.

The PCS supports bidirectional power conversion and is suitable for various scenarios, including energy storage stations, commercial and industrial facilities, and microgrid systems.

Driven by the mission to become a key enabler of global electrification, intelligent transformation, and green energy transition, TECO continuously advances its PCS development to align with international standards and meet diverse global market needs.

Through technological innovation and cross-industry collaboration, TECO partners with stakeholders worldwide to accelerate the transition to a sustainable and low-carbon future.

Product Features



99% bidirectional conversion efficiency



Can be integrated with various types of battery systems



Wide DC voltage range enables more flexible battery configuration.



Equipment miniaturization, saving floor space



Supports VSG and black start functionality



Compact design to save installation space

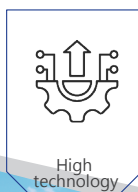
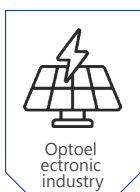
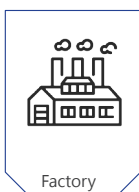
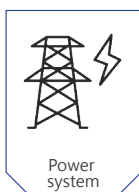


Multiple safety protections



Remote monitoring and communication integration

Application Areas

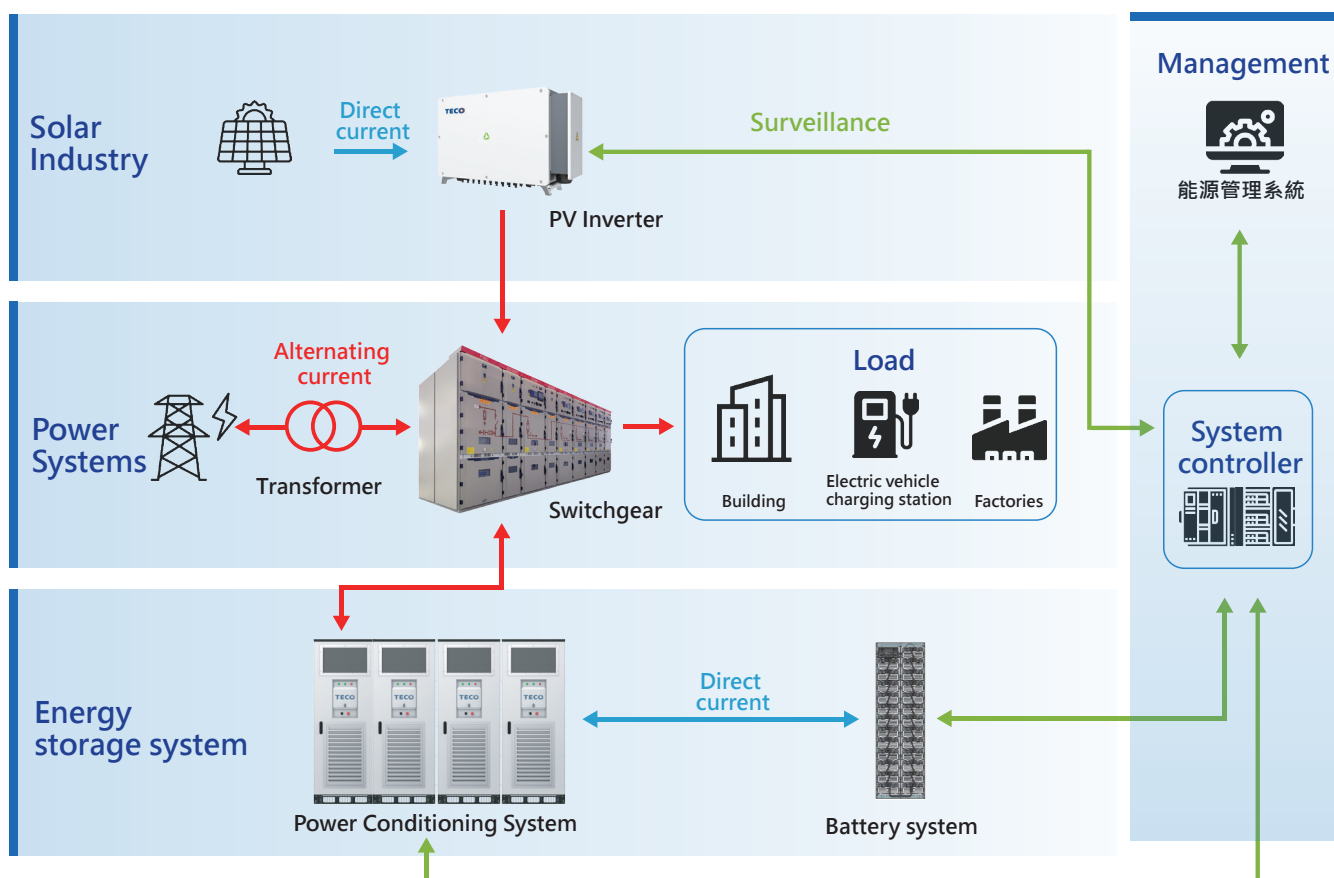


Key Specifications:



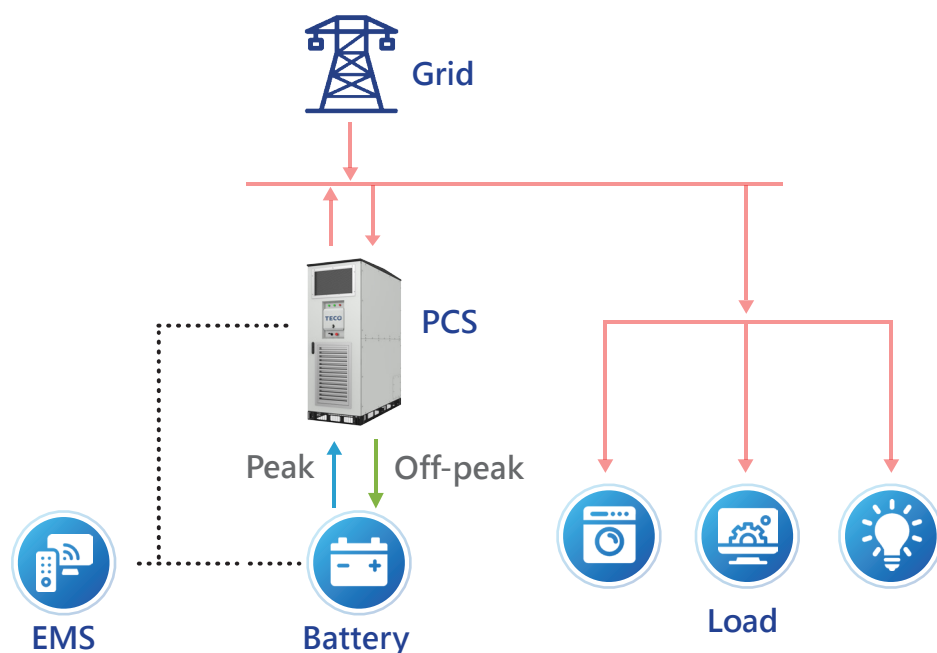
Rated AC Output Power	1250kW · 1500kW · 1725kW
DC Voltage Range	1000~1500V
Rated AC Voltage	690V±10%
Output Accuracy	1%
Max. Eff.	>99%
Harmonics Voltage	<3%
Harmonics Current	<3%
Response Time	≤200mS (Fully loaded)
Standby Loss	<200W
Protection Level	IP55 · IP65
Communication Protocols	Modbus-RTU · Modbus-TCP · IEC 61850

Application Areas



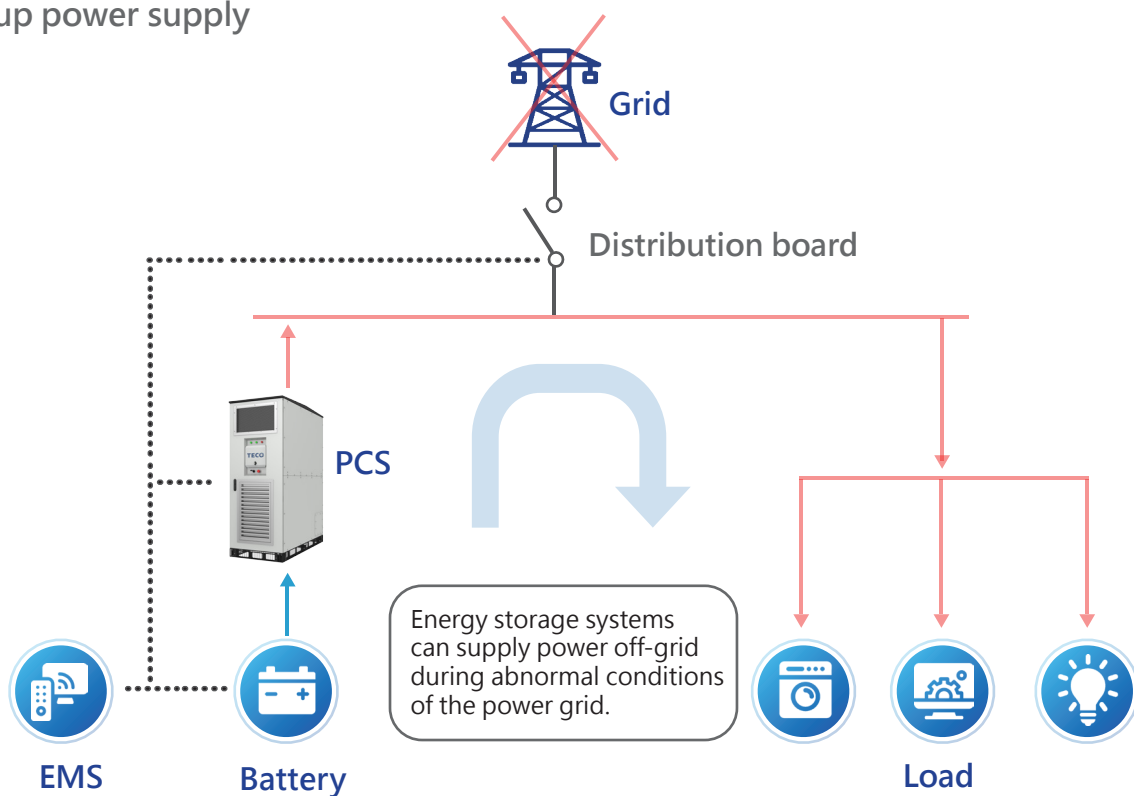
Application 1

Time-based Electricity Pricing Management / Energy Arbitrage



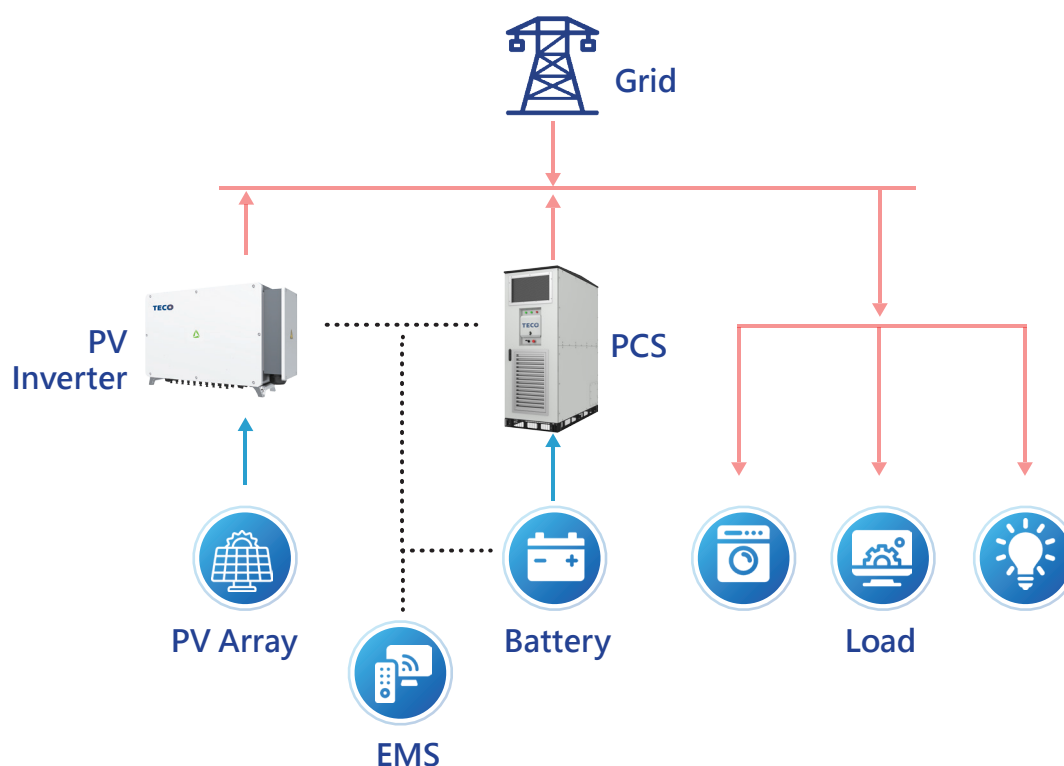
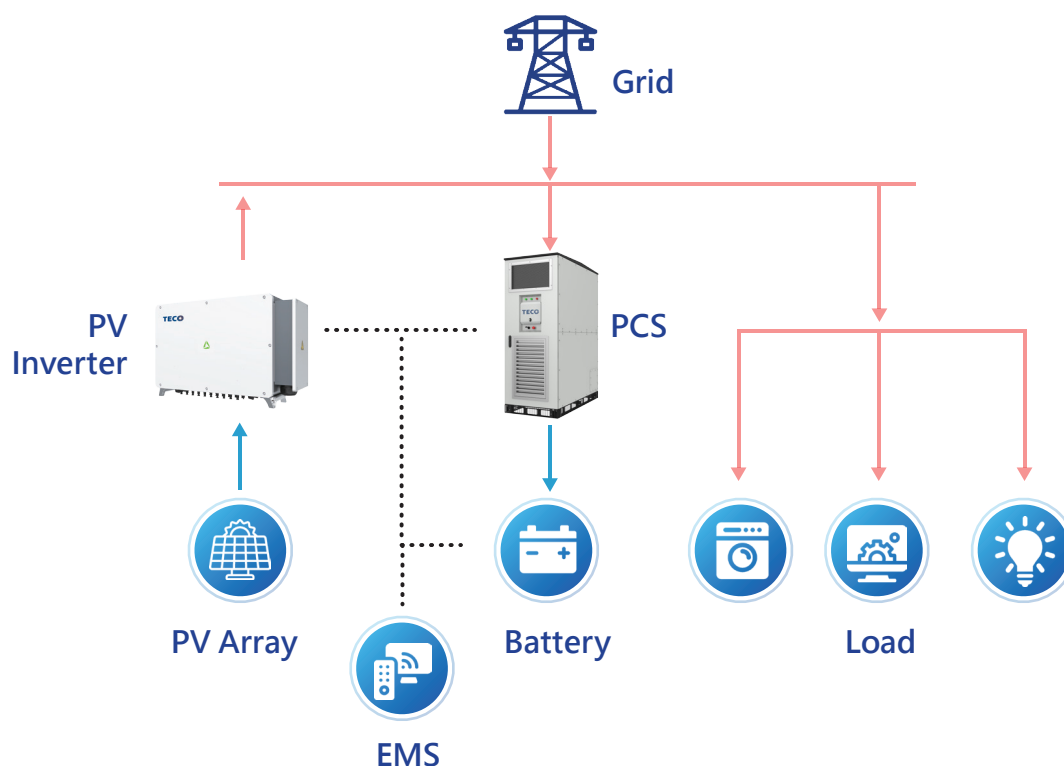
Application 2

Backup power supply



Application 3

Increase the proportion of self-use of photovoltaics



Solar power generation > load, PCS charging
Solar power generation < load, PCS charging, When the battery level is too low, power is supplied to the load by solar energy and the power grid.

Specifications:

Model	TE-PCS-1250K-OTL	TE-PCS-1500K-OTL	TE-PCS-1725K-OTL
DC side			
Max DC Voltage	1500Vdc		
DC Voltage Range	800/900/1000 ~ 1500Vdc	900/1000 ~ 1500Vdc	1000 ~ 1500Vdc
Max DC Currnet	1754A	1870A	1936A
AC side			
Rated AC Output Power	1250kW	1500kW	1725kW
Rated AC Voltage	550Vac±10% @800~1500Vdc	600Vac±10% @900~1500Vdc	690Vac±10%
	600Vac±10% @900~1500Vdc	690Vac±10% @1000~1500Vdc	
	690Vac±10% @1000~1500Vdc		
Max.AC Output Current	1443A	1588A	1588A
Frequency	50Hz / 60Hz		
Current THDi	<3% (rated power)		
Power Factor(@rated Power)	0 ~ 1 (leading and lagging)		
Efficiency			
Max. Eff.	99.01%		
CEC Eff	98.54%		
Standby Loss	<200W		
Body Design			
Dimension(W×H×D)	860×2270×1725mm (IP55)		
Weight	1550kg		
Ingress Protection	IP55		
Cooling Type	Air cooling		
Environment			
Operation temperature	-35℃ ~ 60℃ (≥45℃ derating)		
Humidity	0~100% (no condensing)		
Altitude	4000m (>2000m derating)		
Acoustic Noise	≤ 80dB @1m		
Others			
Communication Protocol	Modbus-RTU / Modbus-TCP / IEC61850 / IEC104		
BMS Communication	RS485 / CAN / Ethernet		
Compliance with Regulations/Standards	IEC62477-1、IEC61000-6-2、IEC61000-6-4、IEC62116、IEEE1547、IEEE519、FCC part15 class A		

Note :

① Specifications are subject to change without prior notice.

FCC part15 class A (U.S. EMC certification)

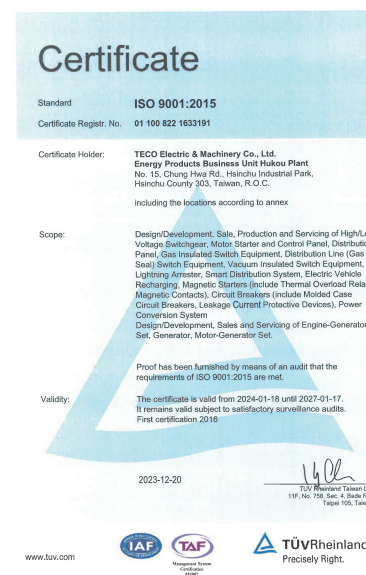


ZERTIFIKAT ◆ CERTIFICATE ◆ 認 證 證 書 ◆ CERTIFIKAT ◆ CERTIFICADO ◆ CERTIFICAT



(Zhenodong Ma)

Page 1 of 4
TÜV SÜD Product Service GmbH - Certification Body - Ridlerstraße 65 - 80339 Munich - Germany





TECO Electric & Machinery Co., Ltd.

5F, No. 19-9, San Chong Rd., Nan-Kang, Taipei 11501, Taiwan (R.O.C.)
Tel 886-2-26553333 ext 3380



About TECO



About IE