



Energy Production • Energy Saving •
Energy Storage • Energy Supplier

Energy storage product and solution



Commercial &
Industrial ESS



Grid ESS



Product 100 / 200 kW PCS

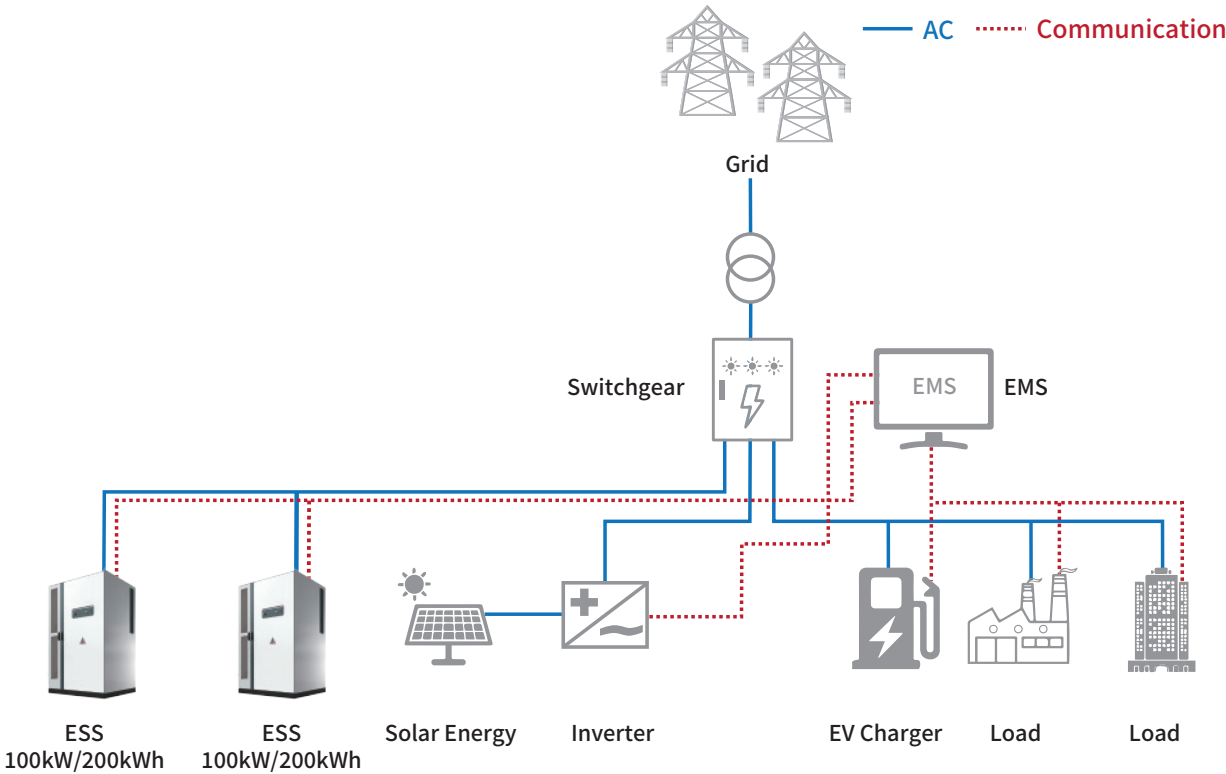


	PCS100K-B-HM-X2	PCS200K-B-HM-X2
DC Side		
Max DC Voltage	1000 Vdc	1500 Vdc
Full Load Voltage Range	600 ~ 1000 Vdc	1060 ~ 1450 Vdc
Max DC Current	187 A	212 A
AC Side		
Rated Output Power	100 kW	200 kW
Max Continuous Output Power	110 kVA	220 kVA
Rated Grid Voltage	400 Vac (3P3W)	690 Vac (3P3W)
Max Efficiency	98.8%	
General Data		
Dimension(W x D x H)	600 x 900 x 295 mm	
Weight	95 kg	
Degree Of Protection	IP66	
Isolation	Non-isolating	
Cooling	Intelligent air cooling	
Noise	< 75dB@1m	
Communication Protocol	Modbus-RTU / Modbus-TCP / CANBUS	
Grid Support	LVRT / HVRT / Real power(Active power) control	
Certification	IEC62477-1 (Safety) / IEC61000-6-2 (EMC) / IEC61000-6-4 (EMC) / IEC62166 (Islanding) / IEEE1547 (On-grid) / IEEE519 (Harmonic)	

Solution 100kW With 215 kWh Battery



All in one			
DC Side		General Data	
System Capacity	100 kW / 215 kWh	Dimension(W x D x H)	1000 x 2250 x 1300 mm
Battery Type	LFP 3.2 V / 280 Ah	Weight	2.1 T
Battery Pack Configuration	43 kWh	Degree Of Protection	IP54
Battery Rack Degree Of Protection	IP67	Max Operation Altitude	4000m (>2000 Derating)
Battery System Configuration	1P240S	Operation Enviroment Temperature	-30°C ~ 50°C (>45°C Derating)
Rated Power	≥ 215 kWh	Operation Humidity Range	0%~95% (Non-condensation)
Rated Voltage	768 Vdc	Fire Fighting System	Perfluoro / Aerosol + Automated firefighting alarm
Voltage Range	672~864 Vdc	Communication Port	Ethernet
C-Rate	≤ 0.5 P	Communication Protocol	Modbus-TCP/ IP
Depth Of Discharge	0~95%	Wiring	In and out from below
Cooling	Water cooling	Certification	IEC62619 / IEC62477 / UN38.3
AC Side			
Rated Power	100kW @ 45°C	Rated Grid Power	60Hz
Rated Grid Voltage	380 Vac	Wiring	3PH+PE
THDi	< 3 %	Degree Of Protection	IP66
DC Component	< 0.5 %	Cooling	Intelligent air cooling
Allowable Grid Voltage Range	-10%~15% (Settable)		



Product 250 / 500 / 750 kW PCS



System features

- Extensive DC voltage operation range.
- Equipped with an external off-grid switch panel with <200ms switching time. If equipped with external SCR, near-zero time (Instantaneous) switching time can be achieved.
- Setting charge discharge time for customer using peak shaving function.
- Rapid output response time < 100ms.
- Equipped with multiple parallel operation expansion functions. (The system can be expanded parallelly for future expansion).
- Equipped with bidirectional inverter to charge and discharge the battery.
- Charging mode includes : Constant current charging, equalizing charging and floating charging modes.
- Discharging mode includes: Constant power discharge and constant current discharge modes.
- Fulfill smart grid design specifications and can be used to do grid dispatch function
- Advanced islanding detection technology
- Low voltage ride through, reactive power Compensation.
- Equipped with off-grid independent operation function.



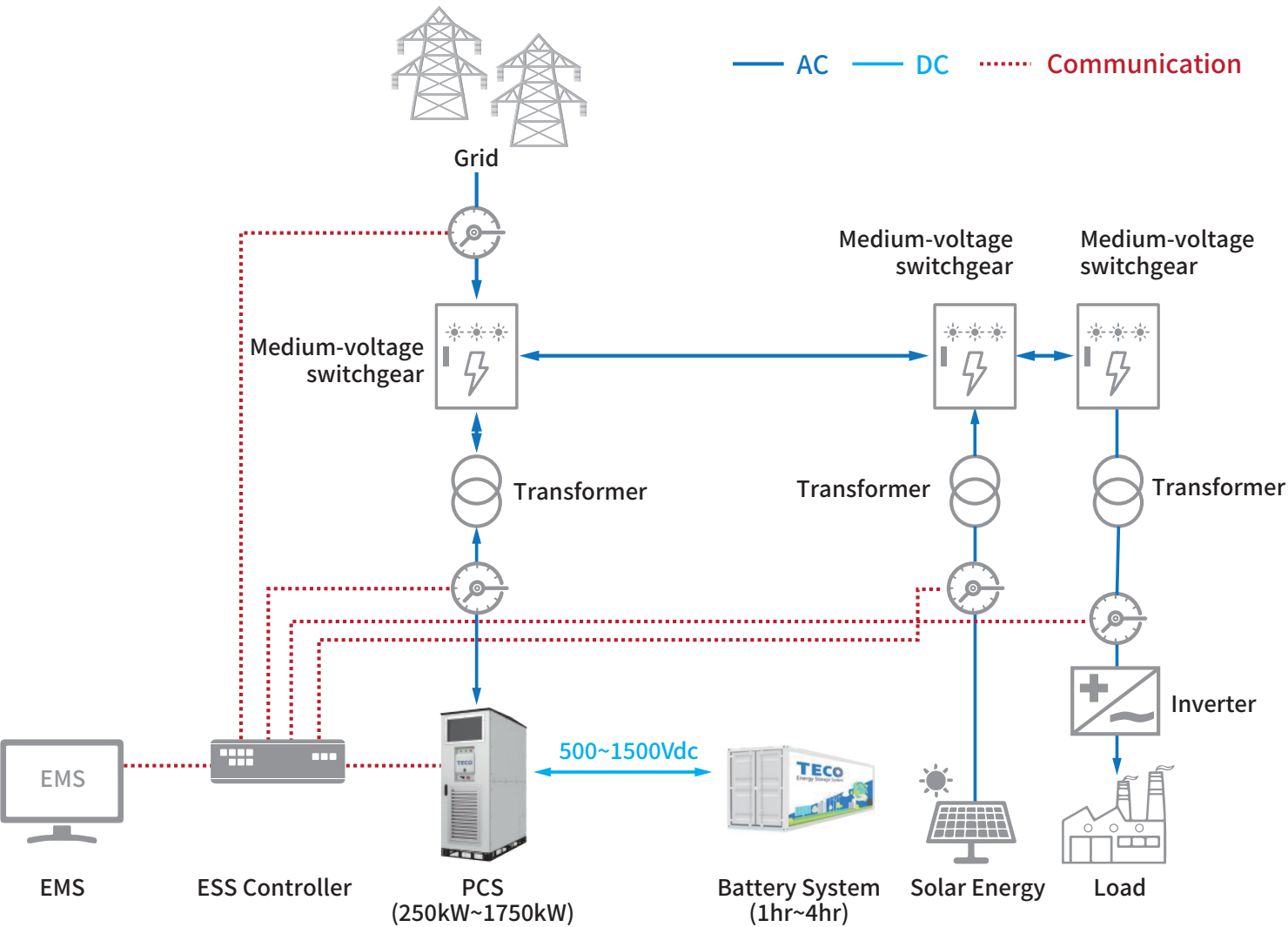
Battery management



Grid adaptability



	TE-PCS-250K-TL	TE-PCS-500K-TL	TE-PCS-750K-TL
DC Side			
Max DC Voltage	100Vdc	1000Vdc	1000Vdc
Max DC Power	278kW	556kW	750kW
Max DC Current	463A	926A	1102A
DC Voltage Range	500Vdc ~ 900Vdc	500Vdc ~ 900Vdc / 600Vdc ~ 900Vdc	680 Vdc~900 Vdc
AC Side			
Rated Output Power(@45°C)	250kW	500kW	750kW
Max Output Power(@45°C)	275kVA	550kVA	825kVA
Max Virtual Power	±250kVAR	±500kVAR	±750kVAR
Rated Voltage	380Vac	315Vac / 380Vac	440Vac
Allowable Voltage Range	85%~110% (Settable)		
Rated Output Current	379A	916A / 759A	984A
Max Output Current	417A	1008A / 835A	1082A
Rated Frequency / Allowable Grid Frequency	50Hz(45 ~ 55Hz)/60Hz(55 ~ 65Hz)		
Frequency Accuracy / Power Accuracy	0.01Hz/0.1%		
Output Voltage Accuracy	1%		
Power Factor(@Rated power)	-1~+1 (Leading or lagging)		
Grid Current Harmonics	< 3% (Rated power), Comply with IEEE1547<5% rated power		
General Data			
Noise	77dBA		
Standby Power Loss	<250 W		
Overload Ability	110% continuous , 120% continuous for one minute	100% conect	
Max Efficiency / Europe Efficiency	99% / 98.7%		
Dimension(W x D x H)	1100 x 700 x 1950 mm		
Weight	700 kg		
Degree Of Protection	IP20 (Internal) , IP54 (External, installed in container)		
Temperature	-25°C ~ +65°C		
Heat Dissipation Method	Forced air cooling		
Humidity	0 ~ 95% RH (Non-condensing)		
Altitude	4000m (>2000m Derating)		
Display	LCD		
Communication Port	RS485 / Ethernet (Basic)		
Communication Interface	Modbus-RTU / Modbus-TCP		
BMS Communication	RS485 CAN		
Container Color	PANTONE 424C		
Certification	IEC62477-1(Safety) / EN61000-6-2:2005(EMC) / EN61000-6-4:2007(EMC) / IEEE519(Power quality) / IEC62116(Islanding) / IEEE1547(On-grid)		



Product 1250 / 1500 / 1725 kW PCS

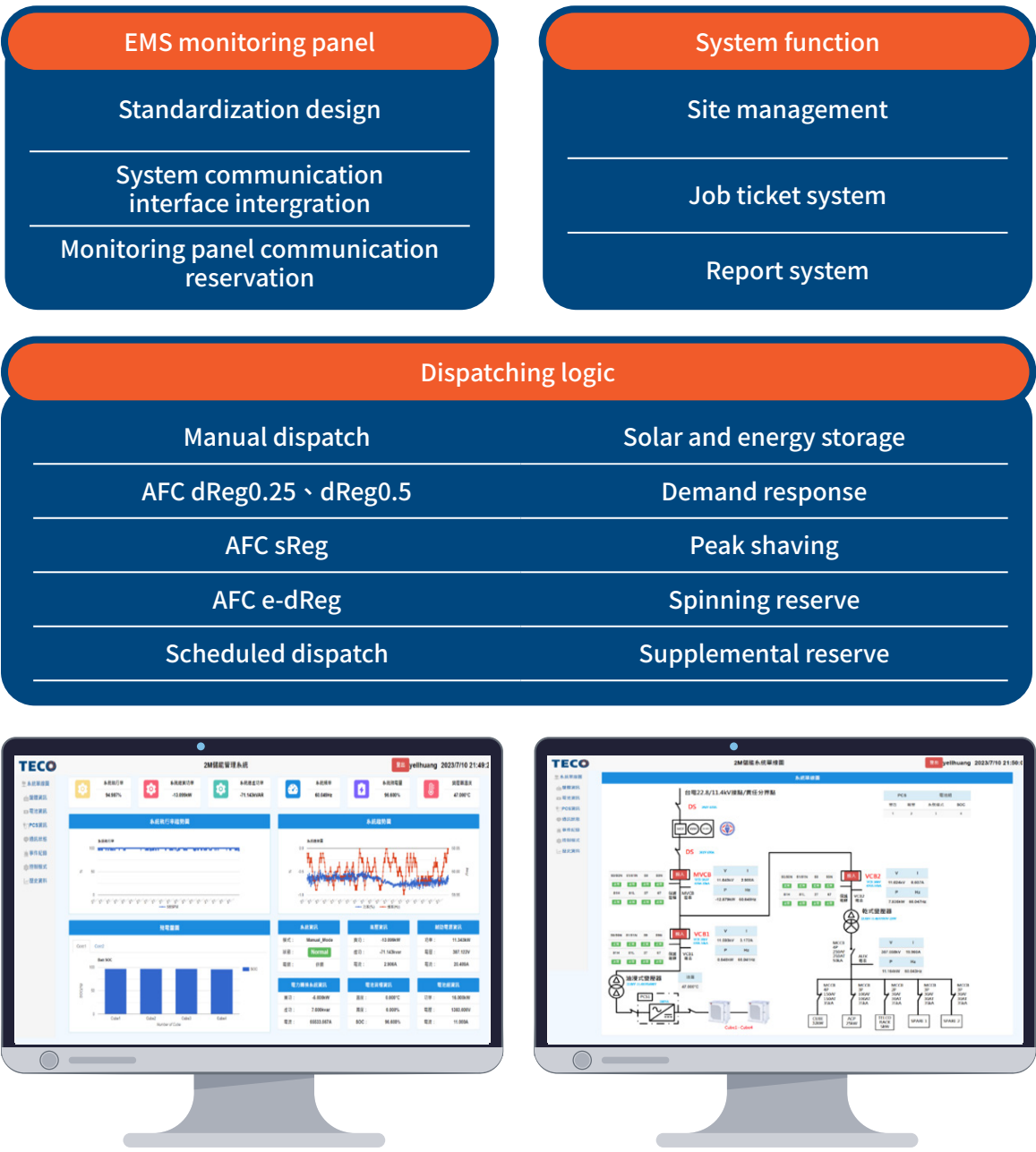
- 99% bidirectional conversion efficiency
- Can be integrated with different type of battery system
- Extensive DC voltage operational range, and more flexible configuration DC side
- VSG support, blackstart function
- Minimalistic design to save more space



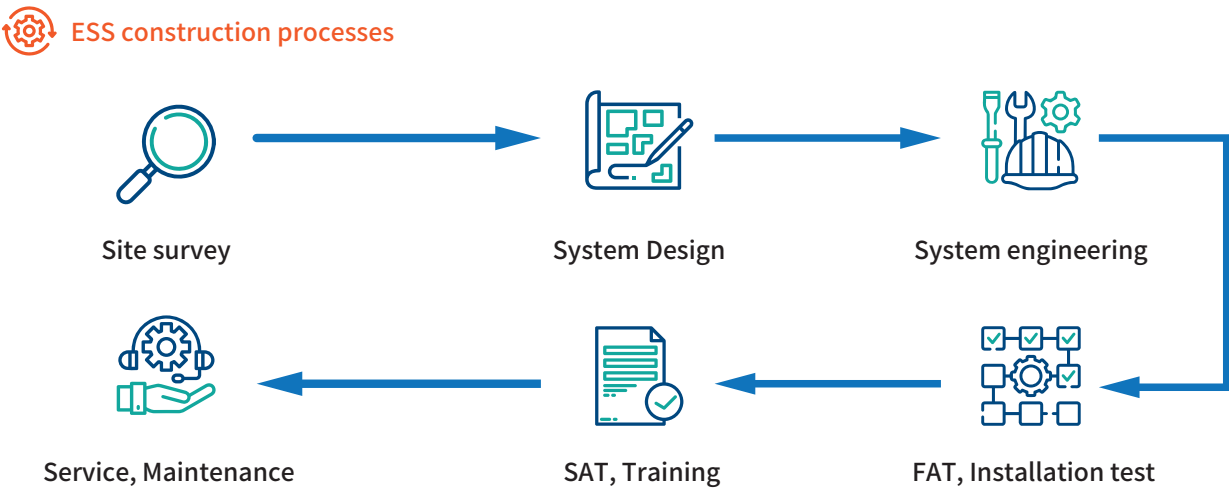
	TE-PCS-1250K-OTL	TE-PCS-1500K-OTL	TE-PCS-1725K-OTL
DC Side			
Output Voltage(Max)	1500Vdc		
Operating Voltage Range	800/900/1000 ~ 1500Vdc	900/1000 ~ 1500Vdc	1000 ~ 1500Vdc
Max Input DC Current	1754A	1870A	1936A
AC Side			
Rated Output Power	1250kW	1500kW	1725kW
Rated AC Voltage	550Vac±10% @ 800 ~ 1500Vdc 600Vac±10% @ 900 ~ 1500Vdc 690Vac±10% @ 1000 ~ 1500Vdc	600Vac±10% @ 900 ~ 1500Vdc 690Vac±10% @ 1000 ~ 1500Vdc	690Vac±10%
Max Output AC Current	1443A	1588A	1588A
Frequency	50Hz / 60Hz		
Total Current Harmonic	<3% @ Rated output power		
Power Factor	0 ~ 1 (Leading or Lagging)		
Efficiency			
Max Efficiency	99.01%		
CEC Efficiency	98.54%		
Standby Power Loss	<200W		
Container Design			
Dimension(W x D x H)	860 x 1725 x 2270mm (IP55) / 860 x 1900 x 2270mm (IP65)		
Weight	1550 kg		
Degree Of Protection	IP55 / IP65		
Cooling	Intelligent air cooling		
Environment			
Operating Temperature	-35°C ~ +60°C (≥ 45°C Derating)		
Relative Humidity	0~100% (Non-condensing)		
Max Altitude	4000m(>2000m Derating)		
Noise	≤ 80dB @ 1m		
Other			
Communication Protocol	Modbus-RTU / Modbus-TCP / IEC61850 / IEC104		
Communication	RS485 / CAN / Ethernet		
Certification	IEC62477-1(Safety) / IEC61000-6-2 (EMC) / IEC61000-6-4(EMC) / IEC62116(Islanding) / IEEE1547(On-grid) / IEEE519(Power quality)/ FCC Part15 classA		

*For IP65 product, delivery date need to be confirmed with product sales.

EMS



TECO offers one-stop solar energy plus ESS solutions, including system design at the initial stage of planning, power conversion system(PCS), battery energy storage system(BESS), control system and energy management system(EMS) with maintenance and operation service for the entire system.





SMART TECO ! SMART LIFE !



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