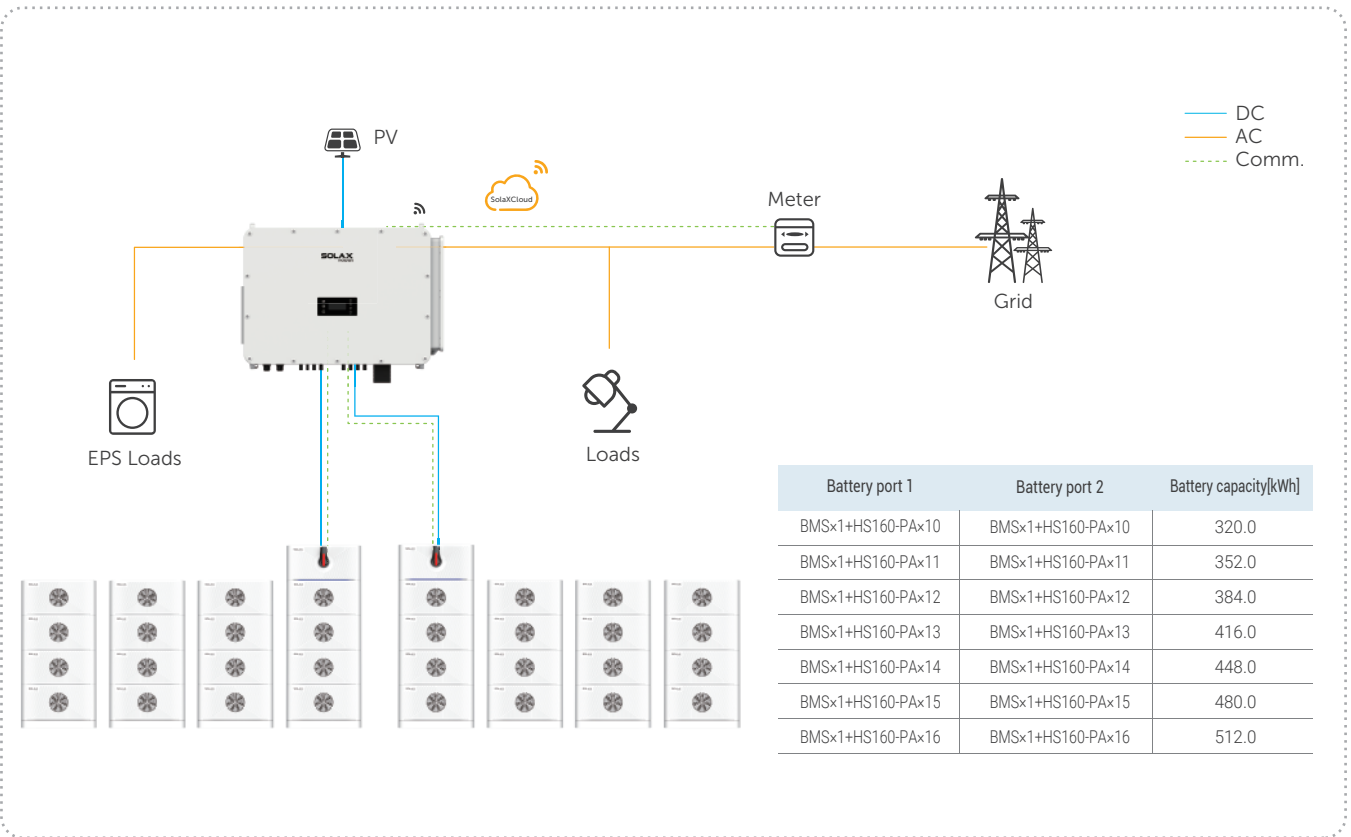
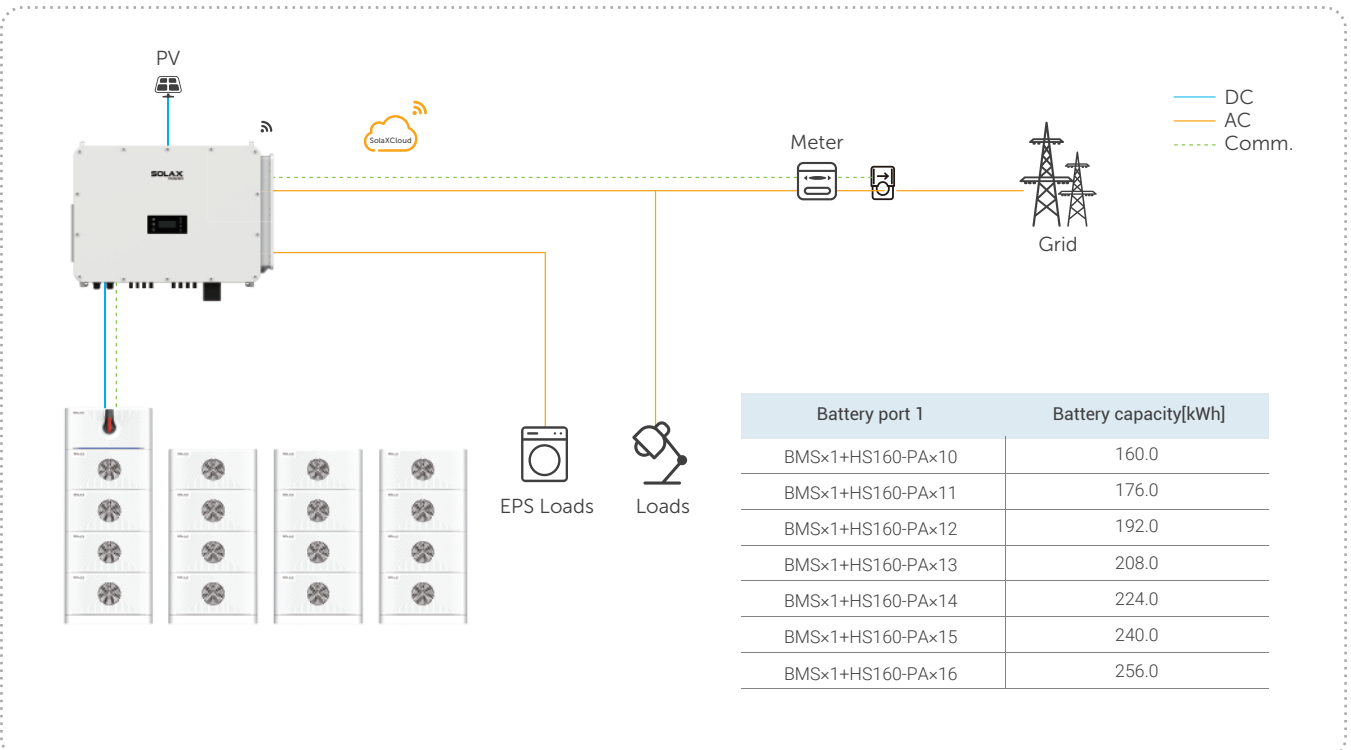
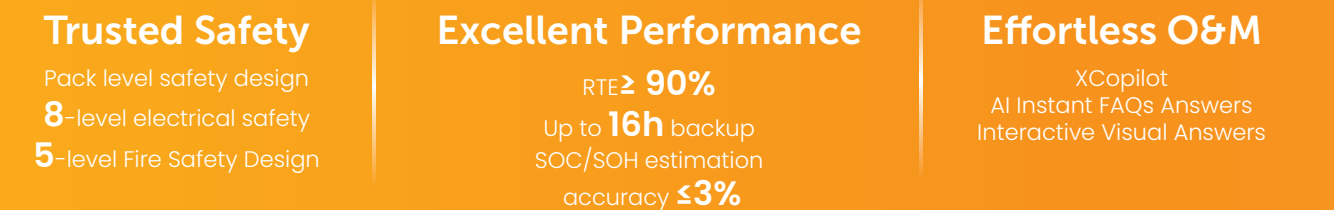
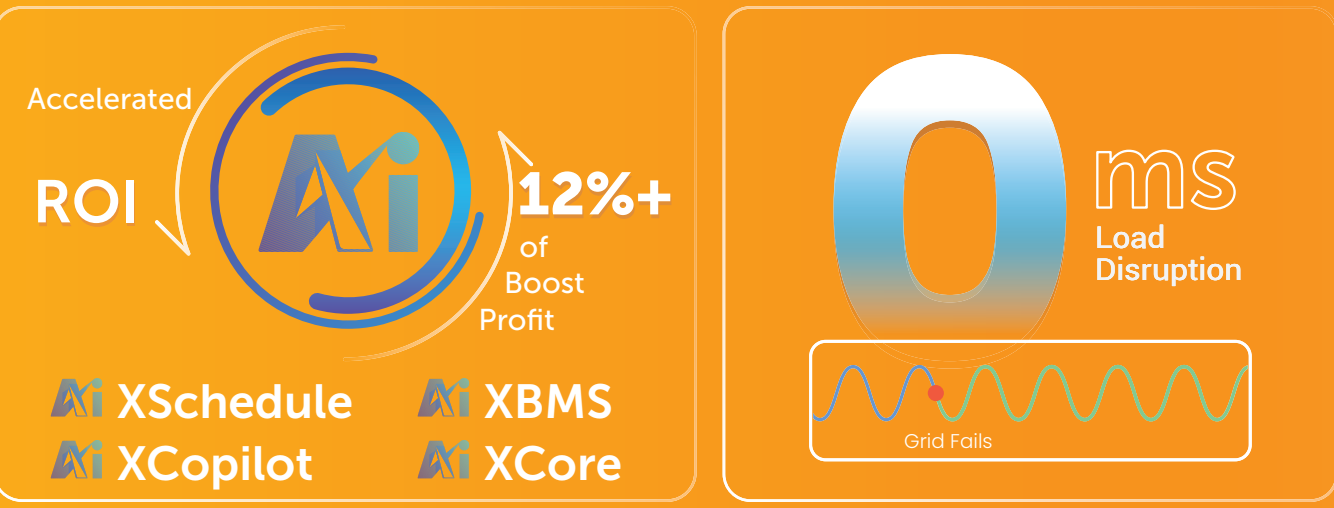


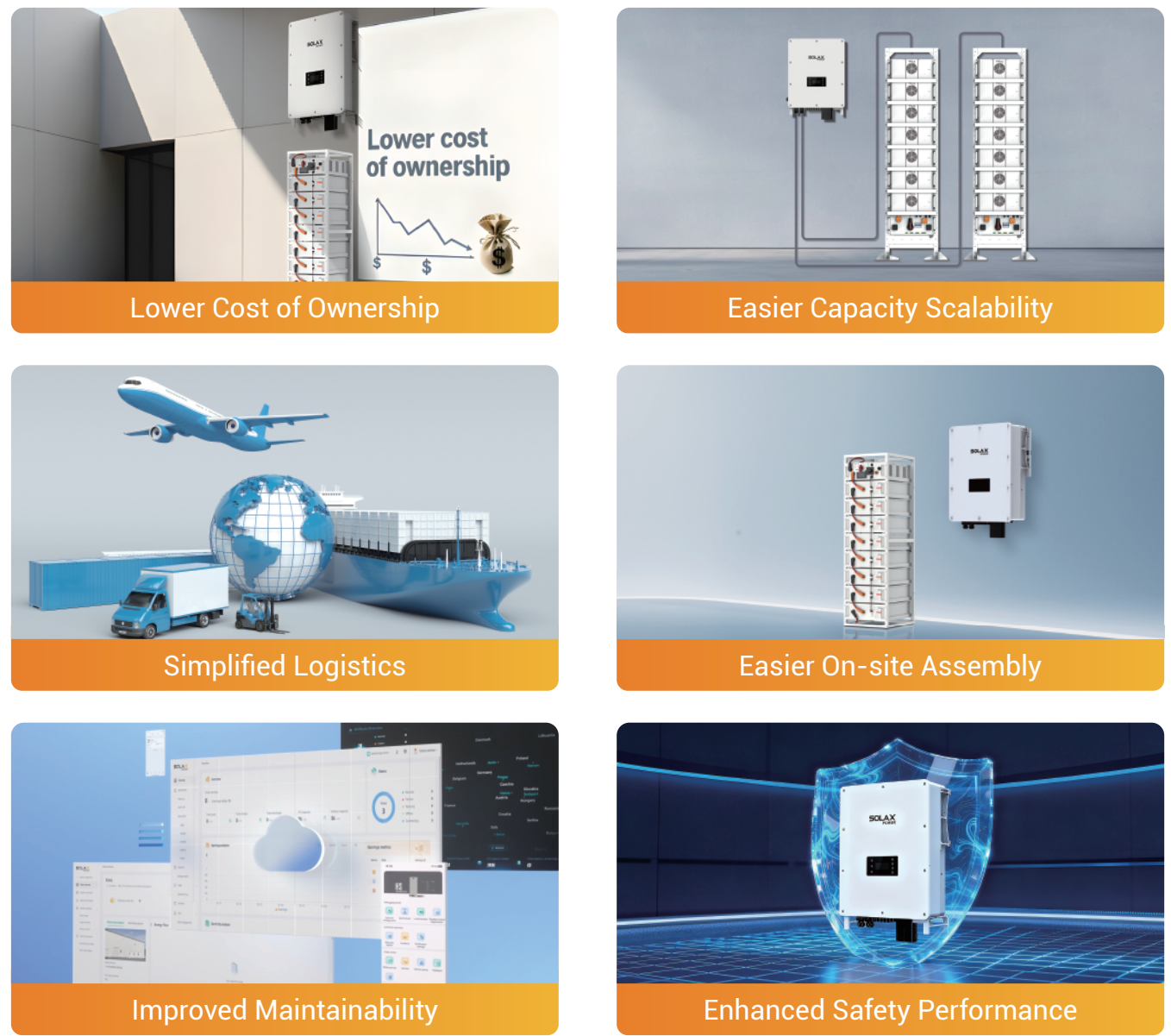
Battery
Module Combination Table



THE LEADING SOLAR
ENERGY STORAGE SOLUTION PROVIDER



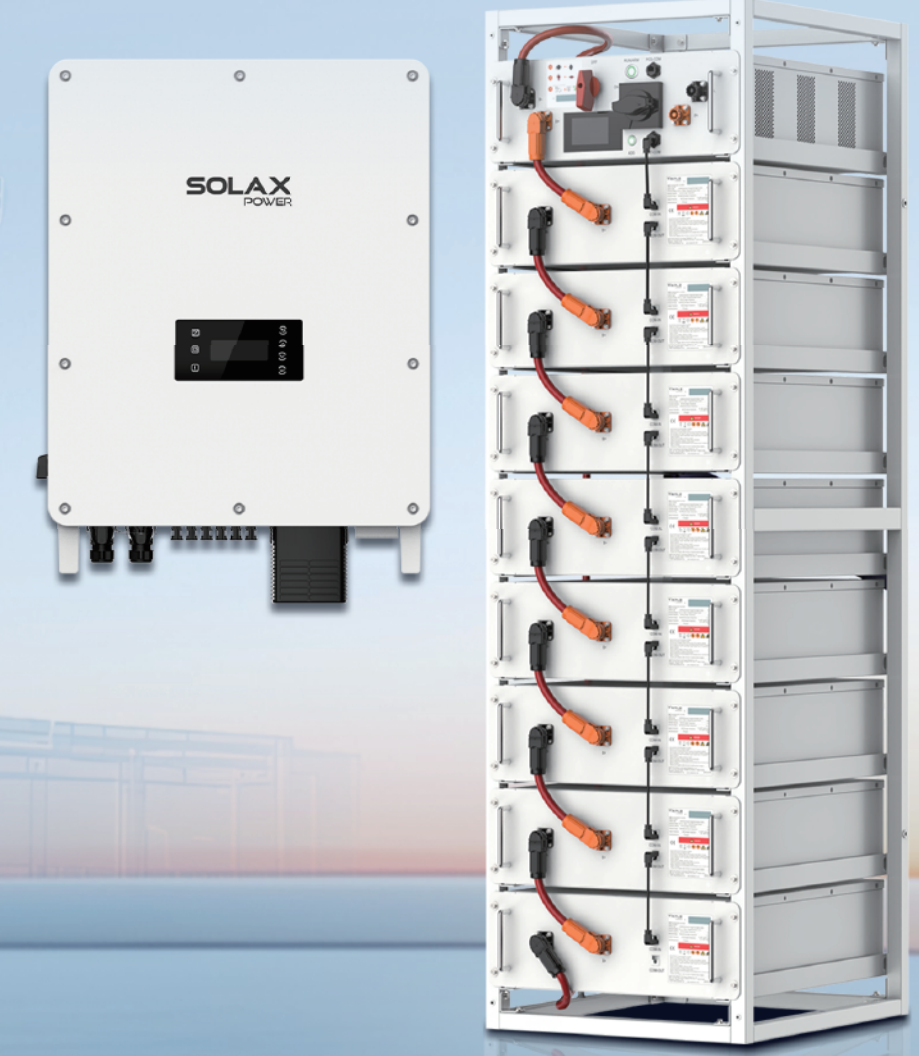
WHY CHOOSE
SPLIT ENERGY STORAGE SOLUTION FOR C&I?



SPLIT C&I ESS SUCCESS STORIES



Commercial & Industrial
SPLIT
ENERGY STORAGE
SOLUTIONS

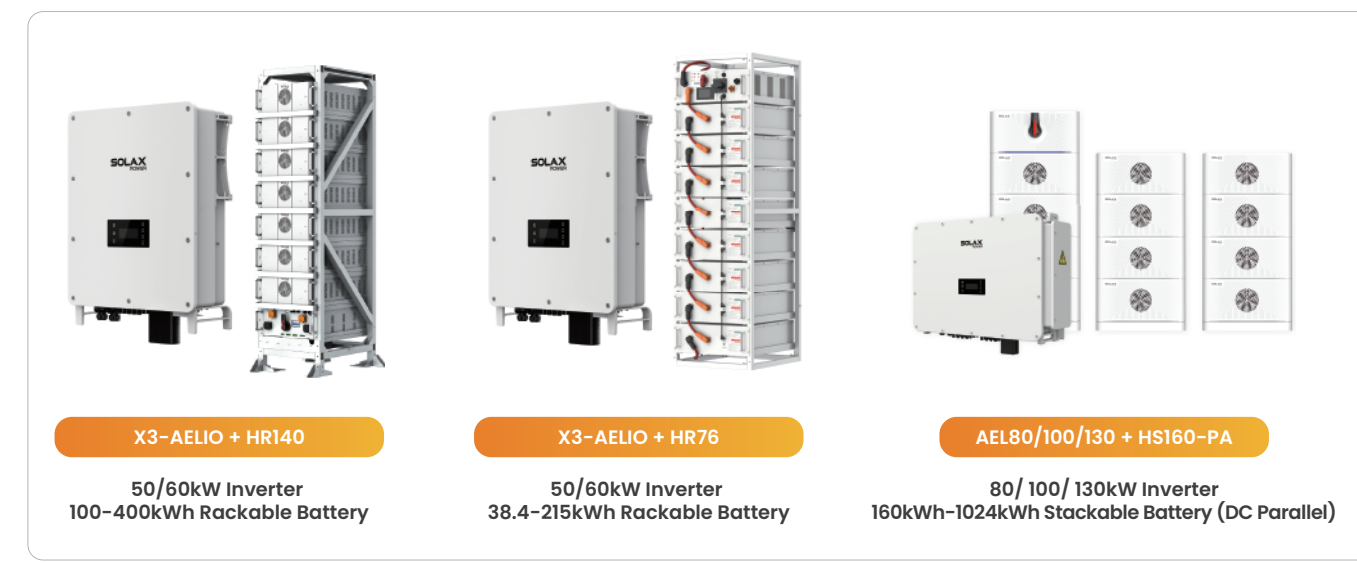


THE LEADING
SOLAR ENERGY STORAGE SOLUTION PROVIDER

Established in 2012, Solax Power is a publicly listed global leader specializing in solar energy storage and smart energy technologies. Offering a comprehensive product portfolio including inverters, batteries, energy storage systems, EV chargers, heat pumps, and integrated smart energy solutions, Solax serves diverse application scenarios across residential, commercial and industrial, and utility-scale projects. With a strong commitment to innovation, driven by an R&D team representing 30% of its workforce, Solax continues to deliver market-leading solutions worldwide. Dedicated to sustainability and backed by extensive global partnerships, Solax helps customers in over 130 countries achieve their energy transition goals and significantly reduce carbon emissions.



Hybrid Solution Optimize CAPEX and reduce O&M complexity





X3-AELIO

	X3-AELIO-49.9K	X3-AELIO-49.9K-P	X3-AELIO-50K	X3-AELIO-60K	X3-AELIO-61K
PV INPUT					
Max. recommended PV array power	100 kWp	120 kWp	100 kWp	120 kWp	120 kWp
Max. PV input voltage ^①	1000 V				
Rated PV input voltage	650 V				
MPPT voltage range ^②	160 ~ 950 V				
Start-up voltage	180 V				
No. of MPP trackers / Strings per MPP tracker	5 / 2	6 / 2	5 / 2	6 / 2	6 / 2
Max. input current per MPPT	40 A				
Max. input short circuit current per MPPT	50 A				
AC INPUT & OUTPUT (ON-GRID)					
Rated output power	49.9 kW	49.9 kW	50.0 kW	60.0 kW	61.0 kW
Rated output current	75.7 A @ 220 V 72.4 A @ 230V	75.7 A @ 220 V 72.4 A @ 230V	75.8 A @ 220 V 72.5 A @ 230V	91.0 A @ 220 V 87.0 A @ 230V	92.5 A @ 220 V 88.5 A @ 230V
Max. output apparent power	49.9 kVA	49.9 kVA	55.0 kVA	66.0 kVA	66.0 kVA
Max. output continuous current	75.7 A @ 220 V 72.4 A @ 230V	75.7 A @ 220 V 72.4 A @ 230V	83.4 A @ 220 V 79.8 A @ 230V	100.0 A @ 220 V 95.7 A @ 230V	100.0 A @ 220 V 95.7 A @ 230V

Rated AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V
Rated AC frequency	50 Hz / 60 Hz
AC frequency range ^③	50 ± 5 Hz / 60 ± 5 Hz
Adjustable power factor range	~ 1 (0.8 lagging to 0.8 leading)
THDi (rated power)	< 3%

BATTERY	
Battery type	LFP
Battery voltage range	180~ 820 V
Max. charge / discharge current	160 A (80 A × 2)

EPS (OFF-GRID) OUTPUT	
Rated EPS output voltage, frequency	3 / N / PE, 220 / 380 V, 50 Hz / 60 Hz 3 / N / PE, 230 / 400 V, 50 Hz / 60 Hz
Rated EPS output power	49.9 kVA, 50.0 kVA, 60.0 kVA, 61.0 kVA
Max EPS output power	75 kVA, 10s, 75 kVA, 10s, 75 kVA, 10s, 90 kVA, 10s, 90 kVA, 10s
Switchover time	< 10 ms

EFFICIENCY	
Max. efficiency	98.0%
European efficiency	97.2%

ENVIRONMENT LIMIT	
Ingress protection	IP66
Operating temperature range	-35 ~ 60°C (derating +45°C)
Max. operating altitude	3000 m
Relative humidity	0 ~ 100% RH (condensing)
Overvoltage category	Mains: III, Battery: II, PV: II

GENERAL	
Dimensions (W × H × D)	670 × 820× 257 mm
Net weight	< 100 kg, < 105 kg, < 100 kg, < 105 kg, < 105 kg
Cooling concept	Smart air cooling
Communication interfaces	RS485-Meter, RS485-Monitor, RS485-Parallel(daisy-chain), CAN-BMS, CAN-Parallel(daisy-chain), USB, Di2, DOx1, RCR(Di×4), DRM
Topology	Non-isolated
Certificates and approvals	CE, VDE4105, G99, AS4777, EN50549, CEI 0-21, IEC61727, PEA/MEA, NRS-097-2-1, RD1699, TOR



X3-AELIO

	X3-AELIO-49.9K	X3-AELIO-49.9K-P	X3-AELIO-50K	X3-AELIO-60K	X3-AELIO-61K
PROTECTION					
Over / under voltage protection	Yes				
DC isolation protection	Yes				
DC reverse-polarity protection	Yes				
Grid monitoring	Yes				
DC injection monitoring	Yes				
Back feed current monitoring	Yes				
Residual current detection	Yes				
Over temperature protection	Yes				
Active anti-islanding method	Frequency shift				
Surge protection (DC / AC)	DC: Type II, AC: Type II				
Arc-fault circuit interrupter (AFCI)	Optional				
AC auxiliary power supply (AFPS)	Built-in				

① The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter
② Input voltage exceeding the MPPT voltage range may triggers inverter protection
③ The AC frequency range may vary from different country codes

*Manufactured in China



AELIO

	AEL80	AEL100	AEL130
	PV INPUT		
Max. recommended PV array power	120 kWp	150 kWp	195 kWp
Max. PV input voltage ^①	1000 d.c.V		
Rated PV input voltage	650 d.c.V		
MPPT voltage range ^②	160 - 850 d.c. V		
Start-up voltage	200 d.c. V		
No. of MPP trackers / strings per MPP tracker	6 / (2/2/2/2/2/2)	8 / (2/2/2/2/2/2/2/2)	
Max. input current per MPPT	42 d.c. A		
Max. input short circuit current per MPPT	55 d.c. A		
	AC INPUT & OUTPUT (ON-GRID)		
Rated output power	80 kW	100 kW	130 kW
Rated output current	121.2 a.c.A @ 220 a.c.V 116.0 a.c.A @ 230 a.c.V 111.1 a.c.A @ 240 a.c.V	151.5 a.c.A @ 220 a.c.V 145.0 a.c.A @ 230 a.c.V 138.9 a.c.A @ 240 a.c.V	197.0 a.c.A @ 220 a.c.V 188.4 a.c.A @ 230 a.c.V 180.6 a.c.A @ 240 a.c.V
Max. output apparent power	80 kVA	100 kVA	130 kVA
Max. output continuous current	121.2 a.c.A @ 220 a.c.V 116.0 a.c.A @ 230 a.c.V 111.1 a.c.A @ 240 a.c.V	151.5 a.c.A @ 220 a.c.V 145.0 a.c.A @ 230 a.c.V 138.9 a.c.A @ 240 a.c.V	197.0 a.c.A @ 220 a.c.V 188.4 a.c.A @ 230 a.c.V 180.6 a.c.A @ 240 a.c.V
Rated AC voltage	3W / N / PE, 220 / 380 a.c.V 3W / PE, 220 / 380 a.c.V 3W / N / PE, 230 / 400 a.c.V 3W / PE, 230 / 400 a.c.V 3W / N / PE, 240 / 415 a.c.V		
Rated AC frequency	50 Hz / 60 Hz		
AC frequency range ^③	50 ± 5 / 60 ± 5 Hz		
Adjustable power factor range	~ 1 (0.8 lagging to 0.8 leading)		
THDi (rated power)Battery type	< 3% (rated power)		



AELIO

BATTERY			
Battery type	LFP		
Battery voltage range	415 - 936 V		
Max. charge / discharge current	200 A (100 A × 2)		
EPS (OFF-GRID) OUTPUT			
Rated EPS output voltage, frequency	3W / N / PE, 220 / 380 a.c. V, 50 Hz / 60 Hz 3W / N / PE, 230 / 400 a.c. V, 50 Hz / 60 Hz 3W / N / PE, 240 / 415 a.c. V, 50 Hz / 60 Hz		
Rated EPS output power	80 kVA	100 kVA	130 kVA
Max. EPS output power	96 kW, 10 s	120 kW, 10s	156 kW, 10 s
Switchover time	0 ms		
GEN ^④			
Rated GEN input power	130 kW		
Rated GEN output voltage, frequency	3W / N / PE, 220 / 380 a.c. V, 50 Hz / 60 Hz 3W / N / PE, 230 / 400 a.c. V, 50 Hz / 60 Hz 3W / N / PE, 240 / 415 a.c. V, 50 Hz / 60 Hz		
Max input current	250A		
EFFICIENCY			
Max. efficiency	98.0%		
European efficiency	97.2%		
GENERAL INFORMATION			
Dimensions (W × H × D)	1150 × 790× 365 mm		
Weight	150 kg		
Cooling concept	Smart air cooling		
Operating temperature range	-35 ~ +60°C (> +45°C derating)		
Relative humidity	0 ~ 100% RH (condensing)		
Max. operating altitude	3000 m		
Overvoltage Category	Mains: III, Battery: II, PV: II		
Ingress protection	IP66		
Topology	Non-isolated		
Communication interfaces	RS485-Meter,RS485-Monitor,CAN-BMS*2,CAN-Parallel (daisy-chain), USB,DOx3,RCR (DI*4),DRM,Internet,DIP*2		
Certifications ^⑤	CE, VDE4105, G99, AS4777, EN50549, CEI 0-21, IEC61727, PEA/MEA, NRS-097-2-1, RD1699, TOR		

PROTECTION	
Over / under voltage protection	Yes
DC isolation protection	Yes
DC reverse-polarity protection	Yes
Grid monitoring	Yes
DC injection monitoring	Yes
Back feed current monitoring	Yes
Residual current detection	Yes
Over temperature protection	Yes
Active anti-islanding method	Frequency shift
Surge protection	DC: Type II, AC: Type II
Arc-fault circuit interrupter (AFCI)	Optional

① The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter
② Input voltage exceeding the MPPT voltage range may triggers inverter protection ③ The AC frequency range may vary from different country codes
④ Power interfaces EPS/GEN are available as options. ⑤ The relevant certifications are currently in the process of being obtained.

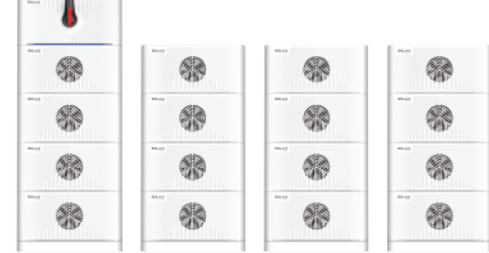
TSYS-HR76



	T-HR38.4 T-HR38.4P ②	T-HR46.0 T-HR46.0P	T-HR53.7 T-HR53.7P	T-HR61.4 T-HR61.4P	T-HR69.2 T-HR69.2P	T-HR76.8 T-HR76.8P	T-HR84.4 T-HR84.4P	T-HR92.1 T-HR92.1P	T-HR99.8 T-HR99.8P	T-HR107.5 T-HR107.5P
SYSTEM SPECIFICATION										
Module quantities	5	6	7	8	9	10	11	12	13	14
Nominal energy	38.4 kWh	46.0 kWh	53.7 kWh	61.4 kWh	69.1 kWh	76.8 kWh	84.4 kWh	92.1 kWh	99.8 kWh	107.5 kWh
Usable energy (90%DOD)	34.5 kWh	41.4 kWh	48.3 kWh	55.2 kWh	62.2 kWh	69.1 kWh	76.0 kWh	82.9 kWh	89.8 kWh	96.7 kWh
Nominal voltage	256.0 V	307.2 V	358.4 V	409.6 V	460.8 V	512.0 V	563.2 V	614.4 V	665.6 V	716.8 V
Operating voltage range	200 ~ 292 V	240 ~ 350.4 V	280 ~ 408.8 V	320 ~ 467.2 V	360 ~ 525.6 V	400 ~ 584 V	440 ~ 642.4 V	480 ~ 700.8 V	520 ~ 759.2 V	560 ~ 817.6 V
Recommended charge / discharge current ^①	90 A									
Max. charge / discharge current ^②	150 A									
Rated power	23.0 kW	27.6 kW	32.2 kW	36.8 kW	41.4 kW	46.0 kW	50.6 kW	55.2 kW	59.8 kW	64.5 kW
BATTERY MODULE										
Battery model	TB-HR76									
Nominal energy	7.68 kWh									
Nominal voltage	51.2 V									
Rated capacity	150 Ah									
Cycle life (90% DOD)	≥ 6000 (@25°C ± 2°C, 0.5C / 0.5C, 70%EOL)									
Battery type	LFP									
Dimensions (W x H x D)	450 × 170 × 580 mm									
Weight	60 kg									
BMS										
BMS model	TBMS-R76									
Dimensions (W x H x D)	450 × 180 × 580 mm									
Net weight	19.2 kg									
RACK										
Dimensions (W x H x D)	530 x 1800 x 600 mm					1110 x 1800 x 600 mm				
Weight	38.5 kg					77 kg				
GENERAL										
Battery roundtrip efficiency (0.5C / 0.5C, 25°C)	95%									
Operating temperature range ^①	0 ~ 55°C (charge) -20 ~ 55°C (discharge)									
Communication interface	CAN									
Installation type	Rack mounting									
Relative humidity	5 ~ 85%									
Max.operating altitude	3000 m									
Environment	Indoor									
Safety	IEC 62619, IEC 60730, IEC 63056, IEC 61000									
Transport testing requirement	UN38.3									

① The current is affected by temperature and SOC.
② The models with "P" are battery systems delivered with rack protection cover

HS160-PA



	TS-HS1600	TS-HS1760	TS-HS1920	TS-HS2080
GENERAL INFORMATION				
Scalability	10	11	12	13
Nominal voltage	512 d.c.V	563.2 d.c.V	614.4 d.c.V	665.6 d.c.V
Operating voltage range	416 - 584 d.c.V	458 - 643 d.c.V	500 - 701 d.c.V	541 - 760 d.c.V
Nominal energy	160.0 kWh	176.0 kWh	192.0 kWh	208.0 kWh
Usable energy(90% DOD) ^①	144.0 kWh	158.4 kWh	172.8kWh	187.2 kWh
Rated charge/ discharge power	80.0 kW	88.0 kW	96.0 kW	104.0kW
TS-HS2240				
GENERAL INFORMATION				