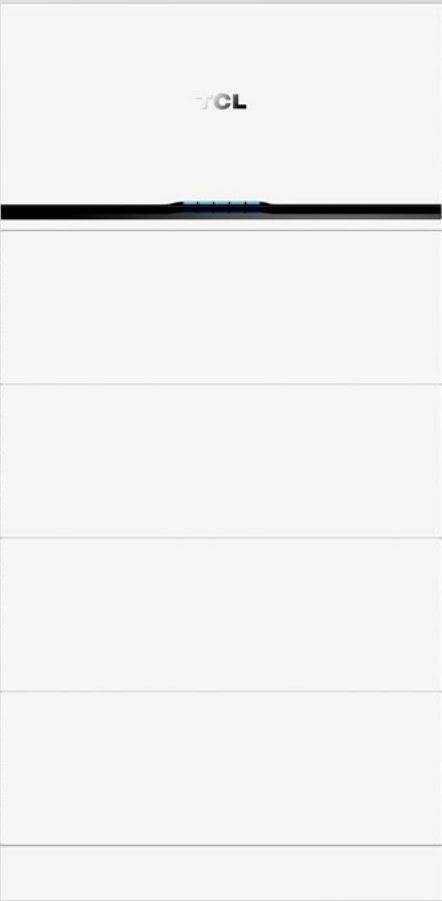




BlueArk X1

3~8kW Single Phase | 5~16kW Three Phase



All-in-One Design

- Integrates hybrid inverter, batteries, UPS, and EMS
- into one system—sleek design, easy installation.
- Reserved port for generator connection;



High Adaptability, Ultimate safety

- IP66 protection degree, indoor and outdoor installation;
- Integrated with heating module, could running under 0℃;
- Type II SPD on both AC/DC side.



Full Power Range Coverage

- Single-phase/three-phase inverters with rated power 3~8kW/5~16kW;
- Battery capacity ranges from 8 to 128kWh;
- Supports up to 4 inverters in parallel (both on-grid/off-grid).



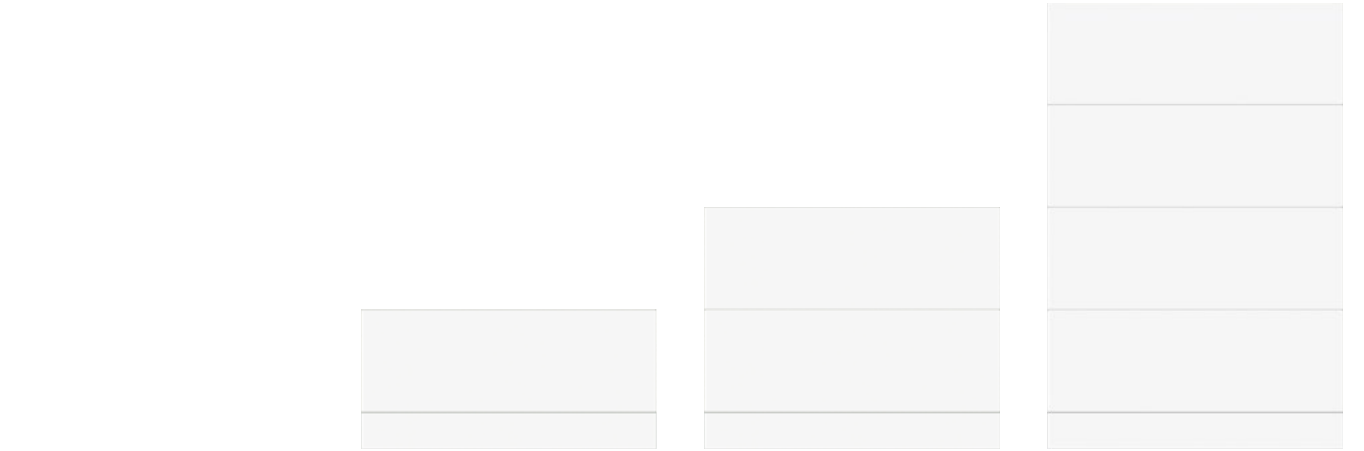
Excellent Performance

- 3 MPPTs, ideal for complex rooftop scenarios;
- String current up to 20A, DC/AC ratio up to 2.0;
- 10ms on/off-grid switchover.

Specifications subject to change without notice.

Datasheet	BlueArk X1 8.0 BMH	BlueArk X1 8.0 BSH*
Performance Specification		
Battery Type	LiFePO4	
Cell Capacity(Ah)	314	
Cycle Life	8000	
Tota Energy Capacity(kWh)	8	
Usable Energy Capacity(kWh)	7.2	
Voltage Range (Single Phase System) (V)	20~60	
Voltage Range (Three Phase System) (V)	20~60	
Max. Charging / Discharging Power(W)	4000	
General Data		
Weight	65	
Dimensions (W / H / D)(mm)	780*270*260	
Operating Temperature Range(°C)	Charging: -20 ~ 55 Discharging: -20~55	
Relative Humidity Range	5% ~ 95%	
Max. Operating Altitude(m)	3000	
Cooling	Natural Convection	
System ingress protection rating	IP66	
Installation method	Floor standing / Wall-mounted	
Standard Compliance		
Standard	UN38.3, IEC 62619, IEC 62040, EMC	

BlueArk X1 8.0 BSH cannot be used independently, it must be used in conjunction with the BlueArk X1 8.0 BMH;



Datasheet	BlueArk X1 8.0 Battery	BlueArk X1 16.0 Battery	BlueArk X1 32.0 Battery
Number of Battery Modules	1	2	4
System Consists	1*BlueArk X1 8.0 BMH	1*BlueArk X1 8.0 BMH+1*BlueArk X1 8.0 BSH	2*(1*BlueArk X1 8.0 BMH+1*BlueArk X1 8.0 BSH)
Total Energy Capacity(kWh)	8	16	32
Max. Charging / Discharging Current(A)	157	157	314
Max. Charging / Discharging Power(W)*	4000	8000	16000
Weight(kg)*	70	135	265
Dimensions (W / H / D)*	780*368.5*260	780*638.5*260	780*1178.5*260

*((Include the Battery Base))

BlueArk X1 Single Phase Inverter

Specifications subject to change without notice.

Datasheet	3K-SP	3.6K-SP	4K-SP	4.6K-SP	5K-SP	6K-SP	7K-SP	8K-SP
PV Input Data								
Max. Recommended PV Power (Wp)	6000	7200	8000	9200	10000	12000	14000	16000
Max. PV Input Voltage (V)	600V							
Nominal DC input voltage	360V							
Start-up Input Voltage (V)	100							
MPPT Voltage Range (V)	90 ~ 550							
No. of MPPTs/ Strings per MPPT	3/1+1+1						3/2+1+1	
Max. Input Current per MPPT	20+20+20						32+20+20	
Max. Short-circuit Current per MPPT	30+30+30						50+30+30	

Battery Data

[illegible]

Grid Data

[illegible]

Backup Data

[illegible]

Generator(Smart Load) Data

Grid Type	L+N+PE							
Max. AC input Power(W)	4200	5000	5600	6500	7000	8500	10000	11500
Max. AC input Current(A)	18.2	21.7	24.4	28.2	30.4	37	43.5	50

Efficiency

Max.Efficiency	97.60%	97.60%	97.80%	97.80%	98.00%	98.00%	98.10%	98.10%
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Protection

PV Reverse Polarity Protection	Yes
PV Switch	Yes
AC/PV Surge Protection	Type II / Type II
Insulation Resistance Monitoring	Yes
AC Short-circuit Protection	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
Anti-islanding Protection	Yes
Residual-current Monitoring Unit	Yes
String Monitoring	Yes
LVRT	Opt
AFCI	Opt

General Data

Dimensions (W / H / D)(mm)	780*400*260
Weight(kg)	25
Operating Temperature Range(°C)	-30 ~ 60(Derating above 45°C)
Relative Humidity Range	0% ~ 95%
Max. Operating Altitude(m)	3000 (Derating above 2000m)
Cooling	Intelligent air cooling
Protection Degree	IP66
Communication(WLAN/Ethernet/RS485/4G)	Opt
Warranty(5years/10years)	Yes/Opt

Standard Compliance

Standard IEC/EN 62109-1/2, EN50549-10, AS4777.1, IEC 61727, IEC62116,C10/C11,N4105, IEC 61000, CEI 0-21, IEC61683

BlueArk X1 Three Phase Inverter

Specifications subject to change without notice.

Datasheet	5K-TP	6K-TP	8K-TP	10K-TP	12K-TP	15K-TP	16K-TP
PV Input Data							
Max. Recommended PV Power (Wp)	10000	12000	16000	20000	24000	30000	30000
Max. PV Input Voltage (V)				1000			
Nominal DC input voltage				700			
Start-up Input Voltage (V)				144			
MPPT Voltage Range (V)				160-1000			
No. of MPPTs/ Strings per MPPT	2/1+1		3/1+1+1		3/2+1+1		
Max. Input Current per MPPT(A)	20+20		20+20+20		32+20+20		
Max. Short-circuit Current per MPPT(A)	30+30		30+30+30		50+30+30		

Battery Data

Compatible Battery				BlueArk X1 8.0 Battery, 8-128kWh				
Max.Charging/Discharging Current (A)				314				
Battery Voltage Range (V)				20~60				
Max.Charging/Discharging Power (W)		5000	6000	8000	10000	12000	15000	16000

Grid Data

Max.AC Input Power From Grid (VA)	22000	22000	22000	22000	22000	22000	22000
Rated AC Output Power (W)	5000	6000	8000	10000	12000	15000	16000
Rated AC Output Current(A)	7.3	8.7	11.5	14.4	17.3	21.7	23.2
Rated AC Voltage Range (V)	380 / 400						
Rated Grid Frequency (Hz)	50 / 60						
Power Factor	0.8 leading ~ 0.8 lagging						
THDi	< 3%						
Switch Time to Emergency Mode (ms)	10						

Backup Data

Rated Output Active Power (W)	5000	6000	8000	10000	12000	15000	16000
Rated Output Apparent Power(VA)	5000	6000	8000	10000	12000	15000	16000
Peak Output Power (VA, 10s)	10000	12000	16000	20000	24000	30000	30000
Nominal output voltage(V)	380 / 400						
Nominal output Frequency(Hz)	50 / 60						
THDv	< 3%						
Switch Time to Emergency Mode (ms)	10						

Generator(Smart Load) Data

Grid Type	3W+N+PE
Max. AC input Power(W)	22000
Max. AC input Current(A)	32

Efficiency

Max.Efficiency	97.80%	97.80%	98.00%	98.00%	98.20%	98.20%	98.20%
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Protection

PV Reverse Polarity Protection	Yes
PV Switch	Yes
AC/PV Surge Protection	Type II/ Type II
Insulation Resistance Monitoring	Yes
AC Short-circuit Protection	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
Anti-islanding Protection	Yes
Residual-current Monitoring Unit	Yes
String Monitoring	Yes
LVRT	Opt
AFCl	Opt

General Data

Dimensions (W / H / D)(mm)	780*400*260
Weight(kg)	30
Operating Temperature Range(°C)	-30 ~ 60(Derating above 45°C)
Relative Humidity Range	0% ~ 95%
Max. Operating Altitude(m)	3000 (Derating above 2000m)
Cooling	Intelligent air cooling
Protection Degree	IP66
Communication(WLAN/Ethernet/RS485/4G)	Opt
Warranty(5years/10years)	Yes/Opt

Standard Compliance

Standard IEC/EN 62109-1/2, EN50549-10, AS4777.1, IEC 61727, IEC 62116, C10/C11, N4105, IEC 61000, CEI 0-21, IEC61683