

IP65储能逆变一体机系列

IP65 All-in-one ESS Series



SU-AONE6K

6kW/15kWh All-in-one ESS Series

储能逆变一体机



IP65 outdoor protection
IP65 户外防护等级



<20 ms UPS backup
<20ms UPS应急切换



Integrated inverter+battery
逆变器+电池一体设计



TOU smart scheduling
峰谷电价智能调度



Low-voltage LFP safer
低压LFP电池更安全



App monitoring & control
App 监控与控制

规格参数 Specifications

型号 Model	SU-AONE6K
光伏输入 PV Input	
输入功率 Max.PV Input Power(kW)	9
开路电压 Max.PV Open Circuit Voltage(V)	550
电压范围 MPPT Voltage Range(VDC)	80~520
最大功率电压范围 Full Power MPPT Voltage Range(VDC)	250~500V
启动电压 Start-up Voltage(VDC)	90
输入电流 Max.Input Current per MPPT(A)	19/19
短路电流 Max. Short-circuit Current(A)	25/25
光伏串数 MPPT Tracker/Strings	2/1
额定输入电压 Nominal Input Voltage(V)	360
交流输出 AC Output(并网On-Grid)	
额定功率 Nominal Output Power to Grid(kW)	6
视在功率 Max.Apparent Power to Grid(kVA)	6
视在功率 Max.Apparent Power from Grid(kVA)	6
视在电流 Max.Apparent Current from Grid(A)	26.1
标称电流 Nominal Output Current from Grid(A)	26.1
输出电流 Max.Output Current to Grid(A)	26.1
标称电压频率 Nominal Voltage/Frequency	230V(176V~280V), 50/60Hz, L+N+PE
可调功率因数 Adjustable Power Factor	0.8leading~0.8lagging
电流谐波总畸变率 THDI	<2%
交流输出 ACOutput(备用BackUp)	
标称功率 Nominal Output Power(kW)	6
视在功率 Max.Apparent Power(kVA)	6
标称电流 Nominal Output Current(A)	26.1
输出电流 Max.Output Current(A)	26.1
额定电压频率 Nominal Voltage/Frequency	230V(176V~238V), 50/60Hz,L+N+PE
切换时间 Automatic Switch Time(ms)	<20
电压谐波总畸变率 THDU	<2%
过载能力 Overload Capacity	110%,10s/130%,3s/150%,50ms
效率 Efficiency	
最大效率 Max.Efficiency	96.65%
欧洲效率 Europe Efficiency	97.50%
光伏效率 MPPT Efficiency	99.00%
充放电效率 Max.Battery Charge/Discharge Efficiency	94.60%
电池 Battery	
额定电池电压 Nominal Battery Voltage	51.2VDC
额定能量 Rated Energy	15KWh(0.5C, 25°C)
可用能量(90%深度放电) Usable Energy(90%DOD)	15KWh
最大充电/放电电流 Max.Charge/Discharge Current	120A/120A
工作电压范围 Operation Voltage Range	40.5Vdc ~ 54.5Vdc
工作温度 Operation Temperature	-10°C~+50°C
通讯 Communication	
显示 Reveal	LCD
通讯 Communication	RS485/RS232
监控 Monitoring	WiFi
一般信息 General Data	
防护等级 Ingress Protection	IP65
工作温度 Operating Temperature	-10 °C~ 50°C
相对湿度 Relative Humidity	5%~95% (Non-condensing)
存储温度 Storage Temperature	-15 °C~60 °C
最大工作海拔 Max.Operating Altitude	4000m (Derating above 1000m)
产品尺寸 Product Dimensions (mm)	550mm*285mm*1243mm
包装尺寸 Packaging Dimensions (mm)	550mm*285mm*1243mm
净重 Net Weight (kg)	162KG
毛重 Gross Weight (kg)	186KG
安规 Safety standard	IEC 62109-1/-2
电磁兼容性 EMC standard	IEC 61000-6-1/-2/-3/-4
并网 Grid connection standard	AS 4777.2