

Socrates AC690 1.0

Integrated BESS for Grid Applications



SOLUTION AND PRODUCT FEATURES



Simple Solution, Flexibility and Convenience

- Industrial Highest Modularity
- Expandable and Flexible
- Easy Installation
- Intelligent O&M



Advanced System Design, Safety and Reliability

- All-Around Protection
- Multi-level Safety Configuration
- Redundancy Safety Design



Full-Lifecycle Optimization to Maximize Profit

- Enhanced System Efficiency
- Increased System Discharge
- Reduced Power Consumption
- High Availability
- High Energy Density

SYSTEM CONFIGURATION

Model	MU00- E1629P0800A2-G0	MU00- E1222P0600A2-G0	MU00- E0814P0400A2-G0	MU00- E1629P0400A2-G0	MU00- E1629P0200A2-G0
Nominal Energy	1,629kWh	1,222kWh	814kWh	1,629kWh	1,629kWh
Rated Power	800kW	600kW	400kW	400kW	200kW

BATTERY SPECIFICATION

Nominal Voltage	1331.2V				
Operating Voltage Range	1040V-1500V				
Cell Type	LFP 306Ah				
Rated Cell Charge/Discharge Rate	0.5P				
Max. DoD	100% (Recommended 90%)				
Pack Configuration	1P52S				
Rack Configuration	1P416S				
Max.Charge/Discharge Power per Rack	203.67kW	203.67kW	203.67kW	101.81kW	50.9kW
Rated Charge/Discharge Current per Rack	153A	153A	153A	76.5A	38.2A

PCS SPECIFICATION

Max. DC Voltage	1500V				
Min. DC Voltage	1000V				
Operating DC Voltage Range	1050V~1500V				
Max. AC Power per PCS	250kVA				
Nominal AC Voltage	690V				
AC Voltage Range	-15%~10% (Adjustable)				
Nominal Frequency	50Hz / 45~55Hz, 60Hz / 55~65Hz				
Max. Efficiency	98.8%				
Harmonic (THDi)	<3% (at nominal power)				
Power Factor	>0.99 / 1 leading ~ 1 lagging				
Adjustable Range of Reactive Power	-100%~100%				

GENERAL SPECIFICATION

Dimensions(L*W*H)	2991mm*2438mm*2896mm
Weight	≤16.5 Ton
Cooling Method	Liquid Cooling
BMS Communication	Ethernet
IP Grade	IP55 (Battery & other ACC Compartments)
System Efficiency	Max. 90.8%
Altitude	< 2000m
Noise	<75dB (1m Away from Equipment)
Operating Temperature Range	-25 °C - +55 °C
Relative Humidity Range	0%~95% (no condensing)
Cetification	IEC62619, IEC 63056, IEC62477, IEC61000, EN50549, NTS2.1, UN38.3, UN3536, RoHS