Socrates AC690 2.0

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

Full-Lifecycle Optimization to Maximize Profit

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

Advanced System Design, Safety and Reliability

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

SYSTEM CONFIGURATION					
Model	MU01-E1671P0800A2-G0	MU01-E1253P0600A2-G0	MU01-E0835P0400A2-G0	MU01-E1671P0400A2-G0	MU01-E1671P0200A2-G0
Nominal Energy	1,671kWh	1,253kWh	835kWh	1,671kWh	1,671kWh
Rated Power	800kW	600kW	400kW	400kW	200kW

BATTERY SPECIFICATION	
Nominal Voltage	1331.2V
Operating Voltage Range	1164.8V-1497.6V
Cell Type	LFP 314Ah
Rated Cell Charge/Discharge Rate	0.5P
Max. DoD	100% (Recommended 90%)
Pack Configuration	1P52S
Rack Configuration	1P416S

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	99%
Harmonic (THDi)	<3% (at nominal power)
Power Factor	>0.99 / 1 leading ~ 1 lagging
Adjustable Range of Reactive Power	-100%~100%

Contact: sales@marsrenewable.com
Edition: VEN1.4

*All illustrations and data may differ from standard product, Subject to change without notice.

GENERAL SPECIFICATION	
Dimensions (L*W*H)	2991mm*2438mm*2896mm
Weight	≤17Ton
Cooling Method	Liquid Cooling
BMS Communication	Ethernet
IP Grade	IP55 (Battery & other ACC Compartments)
Anti-Corrosion Grade	C4 (C5 ooptional)
System Efficiency	Max. 91.5%
Altitude	< 2000m
Noise	<75dB (1m Away from Equipment)
Operating Temperature Range	-25℃ - +55 ℃
Aux. Power Consumption	15kVA
Aux. Power Supply	External
Relative Humidity Range	0%~95% (no condensing)
Certification	IEC62619, IEC 63056, IEC62477, IEC61000,EN50549, NTS2.1, UN38.3, UN3536, RoHS, UL9540A
Fire Suppression System	Water Pipe, Top Deflagration Vent, Smoke Detector, Thermal Detector, Combustible Gas Detector, Gas Exhaust Fan, FACP, Alarm, Aerosol (optional)

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