

YOUR  
SMART  
ENERGY



# AlphaCS-H20-DC-LC

1500V Liquid-Cooling System

## CAPACITY

Battery Module: 46.5 kWh

System: 3727.3 kWh



**Flexible Site Layout**

**High Energy Density**

**External Maintenance Design**

**High-Level System Integration**

**Safer Dual Fire Fighting Design**

**Intelligent Thermal Management Strategy**

# AlphaCS-H20-DC-LC



Model		AlphaCS-H20-DC-LC
<b>System Parameters</b>		
Dimensions (W x D x H)	6058 x 2438 x 2896 mm	
System Weight	35 t	
Ingress Protection	IP55	
Rated Voltage	1331.2 V	
Nominal Capacity	3727.3 kWh	
Rated Charging and Discharging Power	1863.6 kW (0.5 P)	
Battery Cluster Connection	10 Clusters in Parallel	
Battery Chemistry	LFP (LiFePO <sub>4</sub> )	
Cooling	Liquid Cooling	
Product Type	Outdoor Container	
Fire-Fighting System	Aerosol + Sprinkler (Perfluorohexanone is optional)	
<b>Battery Parameters</b>		
Battery Model	M166280-S	
Rated Voltage	166.4 V	
Nominal Capacity	46.5 kWh	
Rated Charging and Discharging Power	23.2 kW (0.5 P)	
Ingress Protection	IP67	
Weight	333 kg	
Dimensions (W x D x H)	810 x 1110 x 237.5 mm	
Operating Temperature Range	-30 °C ~ 50 °C*	
<b>Certification</b>		
Compliance	IEC 62619, IEC 62477, UL 9540A, UL 1973, IEC 61000	

\*The optimum temperature range is 15~35°C. If the ambient temperature is too high or too low, the battery performance may deteriorate.



#### Alpha ESS Co., Ltd.

☎ +86 513 8060 6891  
✉ info@alpha-ess.com  
🌐 www.alphaess.com  
📍 No. 1086 Bihua Road, Tongzhou District, Nantong City, Jiangsu Province, China

#### Alpha ESS Europe GmbH

☎ +49 610 3459 1601  
✉ europe@alpha-ess.de  
🌐 www.alphaess.de  
📍 Paul-Ehrlich-Straße 1a, Langen, Hessen D-63225 Germany

#### Alpha ESS Australia Pty. Ltd.

☎ +61 02 9000 7676  
✉ techsupport@alphaess.au  
🌐 www.alphaess.au  
📍 8/15-21 Gibbes Street, Chatswood, NSW 2067 Australia

#### Alpha ESS International Pte. Ltd.

☎ +65 6513 1125 / +65 6513 1126  
✉ Singapore@alpha-ess.com  
📍 2 Corporation Road #01-06A Corporation Place 618494 Singapore

#### Alpha ESS Italy S.r.l.

☎ +39 339 462 4288  
✉ info@alpha-ess.it  
🌐 www.alphaess.it  
📍 Via Don Minzoni, 17, Calenzano Firenze 50041

#### Alpha ESS UK Ltd.

☎ +44 330 043 2610  
✉ info@alpha-ess.com  
🌐 www.alphaess.com  
📍 Drake house, Long street, Dursley, GL11 4HH UK

#### Alpha ESS USA, Inc.

✉ inquiry@alphaess.us  
🌐 www.alphaess.us  
📍 2180 S Ivanhoe St. Unit 5 Denver, CO 80222 USA

#### Alpha ESS Korea Co., Ltd.

✉ info@alpha-ess.com  
📍 2F, 19-4, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea

#### Alpha ESS South Africa (Pty.) Ltd.

✉ measservice@alpha-ess.com  
📍 Johannesburg, South Africa