SMARTY

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ENERGY

Alphaess

SMILE-T10-HV

RESIDENTIAL SERIES

POWER

10 kW

CAPACITY

8.2 kWh Battery Module
Expandable to 49.2 kWh

+

Modular Design

UPS Ability

High Voltage & High Efficiency

Three-Phase Output

160% PV Input

SMILE-T10-HV

Model	SMILE-T10-HV		
System Specifications			
Nominal Output Power	10 000 W		
Capacity Range	8.2 ~ 49.2 kWh (95% DoD)		
Battery Chemistry	LFP ($LiFePO_4$)		
IP Protection	IP65 (Outdoor) / IP21 (Indoor)		
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty		
Inverter Technical Specifications			
Model	SMILE-T10-HV-INV	Rated Voltage	380 / 400 V
Max. PV Input Power	16000 W	Phase	Three Phase
Max. PV Input Current	2 x 26 A	Backup	UPS
Max. PV Input Voltage	1000 V	Communication	Ethernet / WiFi / 4G
MPPT Number / Max. Input Strings Number per MPPT	2 / 2+1	Start-Up Voltage	160 V
MPPT Voltage Range	200 ~ 850 V	Relative Humidity	15% ~ 85% (No Condensation)
Max. PV Short-Circuit Current	2 x 39 A	Dimensions (W x D x H)	580 x 230 x 606 mm
Max. Charging/ Discharging Current	40 A	Weight	30 kg
Max. Charging/ Discharging Power	10000 W	Safety	IEC 62109, IEC 62040
Rated Frequency	50 / 60 Hz	EMC	EN61000-6-1/-2/-3/-4
Grid Regulations	VDE 4105, EN 50549, C10/11, NC RfG, G99, TOR Erzeuger, AS 4777.2, PEA, UNE_217002, VDE 0126		
Battery Technical Specifications			
Module Model	SMILE-BAT-8.2PH		
Module Capacity	8.2 kWh		
Usable Capacity	7.8 kWh		
Depth of Discharge (DoD)	95%*		
Nominal Voltage	256 V		
Max. Charging/ Discharging Current	32 A		
Operating Temperature Range	-10°C ~ 50°C**		
Cycle Life	10000***		
Battery Modules Connection	1 ~ 6 in Parallel		

* Test condition: Max. 0.5C charge/discharge at 25±2°C.
** Max. charge/discharge current derating may occur with changes in temperature and SoC.
*** Under specific test conditions.

Alpha ESS Co., Ltd.
☎ +86 513 8060 6891
✉ info@alpha-ess.com
e www.alphaess.com
Jiuhua Road 888, Nantong High-Tech Industrial Development Zone, Nantong, Jiangsu Province, China

Alpha ESS Europe GmbH
☎ +49 610 3459 1601
✉ europe@alpha-ess.de
e www.alphaess.de
Paul-Ehrlich-Straße 1a,Langen, Hessen D-63225 Germany

Alpha ESS Australia Pty. Ltd.
☎ +61 02 9000 7676
✉ Australia@alpha-ess.com
e www.alphaess.com
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
e www.alphaess.com
Via Don Minzoni, 17,Calenzano Firenze 50041 Italy

Alpha ESS UK Ltd.
☎ +44 145 354 5222
✉ info@alpha-ess.com
Drake house, Long street, Dursley, gl11 4hh UK

Alpha ESS USA, Inc.
☎ +1 408 368 7828
✉ usa@alpha-ess.com
Unit 5 2180 S Ivanhoe St, 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

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