YOUR
SMART
ENERGY

Alphaess

SMILE-T10-HV

RESIDENTIAL SERIES

POWER

10 kW Inverter

CAPACITY

8.2 kWh Battery Modular
Expandable to 49.2 kWh

+

UPS Ability

Three Phase Output

Low-weight Inverter

More PV Generation

Modular Design

High Compatibility

24/7 Online Monitor

Safe and Reliable(LFP ONLY)

Easy Installation and Expansion

SMILE-T10-HV

Model	SMILE-T10-HV		
System Specification			
Nominal Output Power	10000 W		
Capacity Range	8.2 ~ 49.2 kWh (95% DoD)		
Battery Chemistry	LFP (LiFePO4)		
IP Protection	IP65 (Outdoor) / IP21 (Indoor)		
Warranty	5 Year Product Warranty, 10 Year Performance Warranty		
Inverter Technical Specification			
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	**Humidity**	15% ~ 85% (No Condensing)
Max. PV Short-circuit Current	2 x 39 A	**Dimension (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 Regulation	VDE 4105, EN 50549, C10/11, NC RfG, G98, TOR Erzeuger, AS4777.2, PEA, UNE_217002, VDE 0126		
Battery Technical Specification			
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		

* When the ambient temperature is too low or too high, the performance of battery may be limited.
** 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 City, 226300

Alpha ESS Suzhou Co., Ltd.
☎ +86 512 6828 7609
✉ info@alpha-ess.com
e www.alphaess.com
Building 10-A, Canal Town Industrial Park, 99 Taihu E Rd, Wuzhong District, Suzhou 215000

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

Alpha ESS Australia Pty. Ltd.
☎ +61 402 500 520 (Sales)
+61 1300 968 933 (Technical Support)
✉ info@alpha-ess.com
e www.alphaess.com

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

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

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

Alpha ESS USA, Inc.
☎ +1 408 368 7828
✉ usa@alpha-ess.com
Unit 5, 2180 S Ivanhoe St, Denver, CO 80222

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

V04.13092022 Text and images correspond to the current state of technology at the time of printing.Subject to modifications. All information is without guarantee in spite of careful editing - liability excluded.