

DualSmart STS

DualSmart – Low Power System

DualSmart STS



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- Lightweight and robust technopolymer enclosure without ventilation slots, with control buttons located behind the viewing window
- Cable entry from the rear or top; the optional cover for the top cable entries ensures a clean, professional appearance
- Modular design of circuit outputs (2 to 8) and battery capacity (9 Ah to 20 Ah)
- Gas-free lithium battery with a wide operating temperature range

Input	Values	
Rated voltage AC	1 ~ 220-240 V	
Rated frequency	50/60 Hz	
Max. rated current AC	7,5 A	
Rated voltage DC	20,0- 28,8 V	
Battery	Lithium Battery LiFePo4 25,6 V, max. 60 A for 4 s	
Conductor arrangement and grounding system in Mains/Battery Operation	TNC-S / IT	
Protection class	I	
Input fuse	8A slow-blow (T), 300V, 6,3 x 32mm	
Output		
Rated voltage AC	220-240 V AC	
Rated voltage DC	222-229 V (load-dependent)	
Max. rated power per circuit	150 VA / 140 W	
Rated current per circuit	0,625 A	
Circuit fuse	1 A slow-blow (T), 250 V, 5 x 20 mm	
Max. rated power 24 V auxiliary voltage	2x 14,4 W (LON and DS-Bus)	
Output dependent on DC/DC converter	1 DC/DC installed	2 DC/DC installed
Max. current	2,4 A AC / 1,2 A DC	4,8 A AC / 2,4 A DC
Max. rated power VA/W	575 VA / 270 W	1150 VA / 330 W

Overview

Circuits	2 bis 8
DC/DC converters	1 bis 2
Min. battery capacity	9 Ah
Max. battery capacity	20 Ah
Dimensions (H x W x D mm)	633 x 337 x 158
Storage / transport temperature	-20 °C to 60 °C
Operating ambient temperature	0 °C to 35 °C
Relative air pressure	795 to 1080 hPa
Maximum installation altitude	2000 m above sea level
Sound pressure level during mains operation	0 dB
Enclosure material	Technopolymer
Enclosure color	RAL 7016
Degree of protection	IP31 (Cable entry from above) IP20 (Cable entry from the rear)
Weight without batteries (kg)	ca. 9 kg

Compatible batteries

Rated capacity (Ah) at 20 °C	Dimensions of one Battery H x W x D (mm)	Weight (kg)
9 Ah	169,0 x 183,1 x 78,5	2,6
12 Ah	169,0 x 183,1 x 78,5	2,6
20 Ah	172,0 x 196,0 x 134,0	5,0

Order overview

Sample order number:

DSSTS4220AHDE003

DS
STS
4
2
20AH
EN
003

System type

DS	DualSmart
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Enclosure type

STS	Standard
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Number of circuits

2
4
6
8

Number of DC/DC converters

1
2

Battery capacity

9 Ah
12 Ah
20 Ah

Language

DE	German
EN	English

Accessories

000	No accessories
001	Terminal cover STS
002	Cover cable entry STS
003	Terminal cover STS + Cover cable entry STS
004	Grommet set STS/MET
005	Terminal cover STS+ Grommet set STS/MET
006	Cover cable entry STS + Grommet set STS/ MET
007	Terminal cover STS + Cover cable entry STS+ Grommet set STS/MET

Ordering information – Replacement batteries

Type	Description	Order No.
9 Ah	LiFePo4 Batteriy 9 Ah capacity at 20 °C Terminal M6	40066071748
12 Ah	LiFePo4 Batteriy 12 Ah capacity at 20 °C Terminal M6	40066071749
20 Ah	LiFePo4 Batteriy 20 Ah capacity at 20 °C Terminal M6	40066071750

Ordering information - Replacement components

Type	Description	Order No.
CSD	Circuit card with two circuits, maximum 0.625 A per circuit	400SP363370
DC/DC converter	Converts battery voltage to output voltage, maximum connected load 270 W per DC/DC converter	400SP363380
Charger	Battery charging unit	400SP363360

Ordering information – Replacement fuses

Type	Description	Order No.
Circuit fuses	Replacement fuses 10x 1 A slow-blow (T), 250 V, 5 x 20 mm	40071363199
Mains input fuse	Replacement fuses 10x 8 A slow-blow (T), 300V, 6,3 x 32mm	40071360484

Ordering information accessories

Type	Description	Order No.
Cover cable entry STS	Cover for the upper cable entries DualSmart STS	40071363456
Terminal cover STS	Cover for the installation room DualSmart STS	40071363459
Grommet set STS/MET	Grommet set DualSmart STS/MET (20x M20, 6x M16)	40071363464