

DualSmart MET

DualSmart – Low Power System

DualSmart MET



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- Industrial-grade steel enclosure with high protection rating (IP65) for use in demanding environments
- Pre-punched cable entries at the top, protected by a transport film
- Modular design of circuit outputs (2 to 8) and battery capacity (9 Ah to 64 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 / 540 W

Overview

Circuits	2 to 8
DC/DC converters	1 to 2
Min. battery capacity	9 Ah
Max. battery capacity	20 Ah
Dimensions (H x W x D mm)	751 x 401 x 222
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	Metal
Enclosure color	RAL 7035
Degree of protection	IP65
Weight without batteries (kg)	ca. 25 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
48 Ah	215,5 x 331,0 x 173,2	10,0
64 Ah	215,5 x 331,0 x 173,2	13,2

Order overview

Sample order number:

DSMET4220AHDE000

DS **MET** **4** **2** **20AH** **EN** **000**

System type DS DualSmart	Battery capacity 9 Ah 12 Ah 20 Ah 48 Ah 64 Ah
Enclosure type MET Metal	Language DE German EN English
Number of circuits 2 4 6 8	Number of DC/DC converters 1 2
Accessories 000 No accessories 004 Grommet set STS/MET	

Ordering information – Replacement batteries

Type	Description	Order No.
9 Ah	LiFePo4 Battery 9 Ah capacity at 20 °C terminal M6	40066071748
12 Ah	LiFePo4 Battery 12 Ah capacity at 20 °C terminal M6	40066071749
20 Ah	LiFePo4 Battery 20 Ah capacity at 20 °C terminal M6	40066071750
48 Ah	LiFePo4 Battery 48 Ah capacity at 20°C terminal M8	40066071751
64 Ah	LiFePo4 Battery 64 Ah capacity at 20°C terminal M8	40066071752

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.
Grommet set STS/MET	Grommet set DualSmart STS/MET (20x M20, 6x M16)	40071363199