

Asantys AC-CON-SI

AC-CON-SI-1 (S, S-EM / M, M-EM / L, L-EM)

AC-CON-SI-3 (S, S-EM / M1, M1-EM, M2, M2-EM / L, L-EM)

AC Connection box for SMA Sunny Island systems (excluding multiclusters)

Functional

- AC connection box for battery and pv inverters
- Used for off-grid or Back-up applications
- IP65, wall mounted

Customized

- Suitable for SMA battery inverters up to 8kW
- Up to three connectible battery inverters
- Suitable for SMA PV inverter up to 25kW
- Up to four connectible PV inverters
- Single phase or 3-phase

Safe

- Circuit breaker protection for each battery and PV inverters
- Overvoltage protection type II
- Secure enclosure for safe wiring of battery and PV inverter systems
- Very simple inverter disconnection

Made in
Germany



AC-CON-SI-1L-EM



AC-CON-SI-3L-EM



*Solarize
your life!*

Technical Data

Asantys AC-CON-SI-1 (S, S-EM / M, M-EM / L, L-EM)

Model	AC-CON-SI-1 S	AC-CON-SI-1 M	AC-CON-SI-1 L
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AC SI connection box

Number of phases	1	1	1
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PV inverter connection

Number of connectible inverters	1	2	3
Type of inverter	Sunny Boy	Sunny Boy	Sunny Boy
Max power per inverter (kW)	5	5	5
Nominal Voltage (V)	230	230	230
Max cross-section of the cable	10 mm ²	10 mm ²	10 mm ²
Cable gland	M32	M32	M32

PV inverter protection

Type	Circuit Breaker 1ph	Circuit Breaker 1ph	Circuit Breaker 1ph
Breaker rated current (A)	32	32	32

Battery inverter connection

Number of connectible inverters	1	2	3
Type of inverter	Sunny Island	Sunny Island	Sunny Island
Max power per inverter (kW)	8	8	8
Max cross-section of the cable	10 mm ²	10 mm ²	10 mm ²
Cable gland	M32	M32	M32

Battery inverter protection

Type	Circuit Breaker 1ph	Circuit Breaker 1ph	Circuit Breaker 1ph
Breaker rated current (A)	50	50	50

Generator

Type of protection	Circuit Breaker 1ph	Circuit Breaker 1ph	Circuit Breaker 1ph
Breaker rated current (A)	50	63	63
Max cross-section of the cable	10 mm ²	10 mm ²	10 mm ²
Cable gland	M32	M32	M32



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Technical Data

Asantys AC-CON-SI-1 (S, S-EM / M, M-EM / L, L-EM)

Model	AC-CON-SI-1 S	AC-CON-SI-1 M	AC-CON-SI-1 L
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Load

Type of protection	Circuit breaker 1ph	Circuit breaker 1ph	Circuit breaker 1ph
Breaker rated current (A)	50	63	63
Max cross-section of the cable	10 mm ²	10 mm ²	10 mm ²
Cable gland	M32	M32	M32
Load shedding contactor	Yes	Yes	Yes
Switch-disconnector rated current (A), as a front mounted handle	NA	NA	NA
Overvoltage protection	Type II	Type II	Type II

Optional

Model with Energy Meter	AC-CON-SI-1 S-EM	AC-CON-SI-1 M-EM	AC-CON-SI-1 L-EM
Energy Meter for load output (EM)	63A	63A	63A

Mechanical data

Width x Height x Depth	450 x 315 x 155 mm	450 x 315 x 155 mm	450 x 315 x 155 mm
Weight	5 kg	5 kg	5 kg

Ambient conditions

Ambient temperature	-35°C to +80°C	-35°C to +80°C	-35°C to +80°C
Humidity (no condensation)	90%	90%	90%

General data

Protection rating	IP65	IP65	IP65
Mounting	Wall mounting	Wall mounting	Wall mounting



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Technical Data

Asantys AC-CON-SI-3 (S, S-EM / M1, M1-EM, M2, M2-EM / L, L-EM)

Model	AC-CON-SI-3 S	AC-CON-SI-3 M1	AC-CON-SI-3 M2	AC-CON-SI-3 L
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AC SI connection box

Number of phases	3	3	3	3
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PV inverter connection

Number of connectible inverters	1	1	2	4
Type of inverter	Sunny Tripower	Sunny Tripower	Sunny Tripower	Sunny Tripower
Max power per inverter (kW)	10	25	10	10
Nominal Voltage (V)	230/400	230/400	230/400	230/400
Max cross-section of the cable	10 mm ²	10 mm ²	10 mm ²	10 mm ²
Cable gland	M32	M32	M32	M32

PV inverter protection

Type	Circuit Breaker 3ph	Circuit Breaker 3ph	Circuit Breaker 3ph	Circuit Breaker 3ph
Breaker rated current (A)	32	50	32	32

Battery inverter connection

Number of connectible inverters	3	3	3	3
Type of inverter	Sunny Island	Sunny Island	Sunny Island	Sunny Island
Max power per inverter (kW)	8	8	8	8
Max cross-section of the cable	10 mm ²	10 mm ²	10 mm ²	10 mm ²
Cable gland	M32	M32	M32	M32

Battery inverter protection

Type	Circuit Breaker 1ph	Circuit Breaker 1ph	Circuit Breaker 1ph	Circuit Breaker 1ph
Breaker rated current (A)	50	50	50	50

Generator

Type of protection	Circuit Breaker 3ph	Circuit Breaker 3ph	Circuit Breaker 3ph	Circuit Breaker 3ph
Breaker rated current (A)	63	63	63	63
Max cross-section of the cable	10 mm ²	10 mm ²	10 mm ²	10 mm ²
Cable gland	M32	M32	M32	M32



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Technical Data

Asantys AC-CON-SI-3 (S, S-EM / M1, M1-EM, M2, M2-EM / L, L-EM)

Model	AC-CON-SI-3 S	AC-CON-SI-3 M1	AC-CON-SI-3 M2	AC-CON-SI-3 L
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Load

Type of protection	Circuit breaker 3ph	Circuit breaker 3ph	Circuit breaker 3ph	Circuit breaker 3ph
Breaker rated current (A)	63	63	63	63
Max cross-section of the cable	10 mm ²	10 mm ²	10 mm ²	10 mm ²
Cable gland	M32	M32	M32	M32
Load shedding contactor	Yes	Yes	Yes	Yes
Switch-disconnector rated current (A), as a front mounted handle	63	63	63	63
Overvoltage protection	Type II	Type II	Type II	Type II

Optional

Model with Energy Meter	AC-CON-SI-3 S-EM	AC-CON-SI-3 M1-EM	AC-CON-SI-3 M2-EM	AC-CON-SI-3 L
Energy Meter for load output (EM)	63A	63A	63A	63A

Mechanical data

Width x Height x Depth	600 x 315 x 155 mm	600 x 315 x 155 mm	750 x 315 x 155 mm	450 x 300 x 145 mm
Weight	8kg	8 kg	10 kg	12 kg

Ambient conditions

Ambient temperature	-35°C to +80°C	-35°C to +80°C	-35°C to +80°C	-35°C to +80°C
Humidity (no condensation)	90%	90%	90%	90%

General data

Protection rating	IP65	IP65	IP65	IP65
Mounting	Wall mounting	Wall mounting	Wall mounting	Wall mounting



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