

DATASHEET

batterX home Inverter

Model	Unit	i10	i20	i30
PV side				
Nominal input power	kW	10	20	30
Max. input power	kW	15	30	45
Starting voltage MPPT	V	165		230
Max. DC input voltage	V	1000		
Rated DC input voltage	V	620		
MPPT voltage range	V	135-850		200-850
Quantity MPPT's / Quantity of inputs per MPPT	pcs	2 / 2	2 / 2	4 / 2
Max. input current	A	30 + 30	30 + 30	30 + 30 + 30 + 30
Max. short-circuit current	A	40 + 40	40 + 40	40 + 40 + 40 + 40
Compatible power optimisers¹		Tigo		
Battery side				
Battery system		batterX home S1 BAT		
Max. charging current	A	40	40	100
Max. discharge current	A	40	40	100
Short circuit current rating for the battery input	A	100	100	120
Grid side				
Rated output power	kW	10	20	30
Max. output power	kW	11	22	33
Rated output apparent power	kVA	10	20	30
Max. output apparent power	kVA	11	22	33
Max. input apparent power	kVA	20	30	36
Max. charging power of battery	kW	10	20	30
Rated AC voltage	V	3x400V + N + PE		
Rated AC frequency	Hz	50/60		
Rated output current	A	14,5	29	43,5
Max. output current	A	16,5	33,5	50
Max. input current	A	29	43,5	52,2
Measured inrush current	A	5,6 @17µs	14,4 @70µs	16,5 @25µs
Max. output fault current	A	59,4	68,4	114
Max. output overcurrent protection	A	59,4	68,4	114
Power factor		0,8 leading - 0,8 lagging		
Max. total harmonic distortion		<3% @Rated output power		
Back-up side				
Rated output power	kW	10	20	30
Max. output power	kW	11	22	33
Rated output apparent power	kVA	10	20	30
Max. output apparent power	kVA	11	22	33
Rated output current	A	14,5	29	43,5
Max. output current	A	16,5	33,5	50
UPS switching time	ms	<10	<10	<20
Rated output voltage	V	3x400V + N +PE		
Rated output frequency	Hz	50/60		
Peak output apparent power	kVA	15 @60s	30 @60s	36 @60s
Voltage harmonic distortion		<3% @linear load		
Efficiency				
Max. efficiency/ European efficiency	%	98,4 / 97,5	98,4 / 97,5	98,8 / 98,3

¹ Model selection and technical details on request

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Model	Unit	i10	i20	i30
Protection				
DC reverse polarity protection			Integrated	
Battery input reverse connection protection			Integrated	
Insulation resistance protection			Integrated	
Surge protection			Integrated	
Over-temperature protection			Integrated	
Residual current protection			Integrated	
Islanding protection			Integrated	
AC over-voltage protection			Integrated	
Overload protection			Integrated	
AC short-circuit protection			Integrated	
General data				
Over voltage category		PV: II; Main III		
AC Input- & Output clamps (flex. / rigid)	mm²	2,5-10 2,5-10	2,5-10 2,5-10	10-25 10-35
Dimensions (W*H*D)	mm	534*418*210	534*418*210	800*620*300
Min. distance to the device (Top / Bottom / Side)	mm	500 / 500 / 300		300 / 300 / 600
Weight	kg	28	31	72
Protection degree		IP65		
Standby self-consumption	W	<15		
Topology		Transformerless		
Operating temperature range	°C	-30~60		
Relative Humidity	%	0~100		
Operating Altitude	m	3000		
Cooling		Smart fan		
Noise level	dB	<40	<40	<50
Warranty²		10 years		
Black start capable		Yes		
Display		LED		
Certification/Standards		CE EMC / CE LVD (NSR) / EN 50549-1 / VDE-AR-N-4105 / VDE V 0124-100 / OVE-Guideline R25 & TOR Producer / Further information available on request		
Installation method		Wall mounting		

² Further information in our warranty conditions



DATASHEET

batterX home S1 BAT

Modell	Unit	S1 BAT 2.5
Nominal energy	kWh	2,56
Nominal capacity	Ah	50
Nominal voltage	V	51,2
Voltage range	V	44.8 ~ 57.6
Max. charge- / discharge current	A	50 / 50
Max. charge-/ discharge rate		C1
Weight	kg	32
Dimension (W*H*D)	mm	650*168*350 (incl. connection contacts)
Cell type		LiFePo (LFP "Lithium-iron-phosphat")
Installation method		Stackable
Number of battery modules		3-10 in series connection per tower
Modell	Unit	S1 BMS
Dimension (W*H*D)	mm	650*350*140 (incl. connection contacts)
Weight	kg	17
Installation method		Stackable
Modell	Unit	S1 BASE
Dimension (W*H*D)	mm	650*350*118 (incl. connection contacts)
Weight	kg	12
Installation method		Stackable
Modell	Unit	S1 MULTI
Dimension (W*H*D)	mm	400*136*343
Weight	kg	6
Installation method		Wall mounting
Power supply	V	Plug-in power supply 230VAC / 12VDC (included)
General data		
Protection degree		IP54
Warranty ²		10 years/ 6000 Cycles
Operation temperature	°C	0~55 (Charge) / -10~55 (Discharge)
Relative humidity	%	5%-95% (without condensation)
Max. altitude	m	2000
Battery connections		Parallel & stackable
Certification		CE/IEC62619/UN38.3

² Further information in our warranty conditions.



DATASHEET

batterX home EMX

Modell	Unit	EMX
Operating voltage	V	Plug-in power supply 230VAC / 12VDC (included)
Max. input current	Adc	2,5
Max. input power	W	30
Protection degree		IP65
Warranty	years	10
Operation temperature	°C	-5 ~ 40
Relative humidity	%	5% - 95% (No condensation)
Max. altitude	m	2000
Dimension (W*H*D)	mm	300*250*180
Weight	kg	5,2
Installation method		Wall mounting / lockable
Hardware interfaces		Potential-free contacts (4x Input & 4x Output)
Software interfaces		Rest-API / Modbus-RTU / Ethernet / CAN / SG-Ready
Special features		batterX cloud / batterX dynamic grid tariff (country-dependent) / genset ready
Certification		CE / EN 60730-1 / EN 62368-1 / §14a EnWG



DATASHEET

batterX home i10

Model	Unit	S1 BAT 7.5	S1 BAT 10	S1 BAT 12.5	S1 BAT 15	S1 BAT 17.5
Nominal energy³	kWh	7,7	10,2	12,8	15,4	17,9
Max. charging power grid	kW	6	8	10	10	10
Max. charging power PV	kW	6	8	10	12	14
Max. charging power total	kW	6	8	10	12	14
Max. discharging grid/backup	kW	6	8	10	11	11
Quantity of battery towers	pcs	1	1	1	1	1
Battery weight	kg	125	157	189	221	253
Dimensions (Towers x W*H*D)	mm	1x650*350*621	1x650*350*755	1x650*350*889	1x650*350*1023	1x650*350*1157
Quantity S1 BAT 2.5	pcs	3	4	5	6	7
Quantity S1 BASE	pcs	1	1	1	1	1
Quantity S1 BMS	pcs	1	1	1	1	1
Quantity S1 MULTI	pcs	0	0	0	0	0
Model	Unit	S1 BAT 20	S1 BAT 22.5	S1 BAT 25	S1 BAT 30	S1 BAT 35
Nominal energy³	kWh	20,5	23,0	25,6	30,7	35,8
Max. charging power grid	kW	10	10	10	10	10
Max. charging power PV	kW	15	15	15	12	14
Max. charging power total	kW	16	18	20	12	14
Max. discharging grid/backup	kW	11	11	11	11	11
Quantity of battery towers	pcs	1	1	1	2	2
Battery weight	kg	285	317	349	448	512
Dimensions (Towers x W*H*D)	mm	1x650*350*1291	1x650*350*1425	1x650*350*1559	2x650*350*1023	2x650*350*1157
Quantity S1 BAT 2.5	pcs	8	9	10	12	14
Quantity S1 BASE	pcs	1	1	1	2	2
Quantity S1 BMS	pcs	1	1	1	2	2
Quantity S1 MULTI	pcs	0	0	0	1	1
Model	Unit	S1 BAT 37.5	S1 BAT 40	S1 BAT 45	S1 BAT 50	S1 BAT 52.5
Nominal energy³	kWh	38,4	41,0	46,1	51,2	53,8
Max. charging power grid	kW	10	10	10	10	10
Max. charging power PV	kW	10	15	15	15	14
Max. charging power total	kW	10	16	18	20	14
Max. discharging grid/backup	kW	11	11	11	11	11
Quantity of battery towers	pcs	3	2	2	2	3
Battery weight	kg	573	576	640	704	765
Dimensions (Towers x W*H*D)	mm	3x650*350*889	2x650*350*1291	2x650*350*1425	2 x650*350*1559	3x650*350*1157
Quantity S1 BAT 2.5	pcs	15	16	18	20	21
Quantity S1 BASE	pcs	3	2	2	2	3
Quantity S1 BMS	pcs	3	2	2	2	3
Quantity S1 MULTI	pcs	1	1	1	1	1
Model	Unit	S1 BAT 60	S1 BAT 67.5	S1 BAT 75		
Nominal energy³	kWh	61,4	69,1	76,8		
Max. charging power grid	kW	10	10	10		
Max. charging power PV	kW	15	15	15		
Max. charging power total	kW	16	18	20		
Max. discharging grid/backup	kW	11	11	11		
Quantity of battery towers	pcs	3	3	3		
Battery weight	kg	861	957	1053		
Dimensions (Towers x W*H*D)	mm	3x650*350*1291	3x650*350*1425	3x650*350*1559		
Quantity S1 BAT 2.5	pcs	24	27	30		
Quantity S1 BASE	pcs	3	3	3		
Quantity S1 BMS	pcs	3	3	3		
Quantity S1 MULTI	pcs	1	1	1		

³ Usable DC capacity at 100% DOD, C0.2 charge and discharge rate, +25°C ambient temperature



DATASHEET

batterX home i20

Model	Unit	S1 BAT 7.5	S1 BAT 10	S1 BAT 12.5	S1 BAT 15	S1 BAT 17.5
Nominal energy ³	kWh	7,7	10,2	12,8	15,4	17,9
Max. charging power grid	kW	6	8	10	12	14
Max. charging power PV	kW	6	8	10	12	14
Max. charging power total	kW	6	8	10	12	14
Max. discharging grid/backup	kW	6	8	10	11	14
Quantity of battery towers	pcs	1	1	1	1	1
Battery weight	kg	125	157	189	221	253
Dimensions (Towers x W*H*D)	mm	1x650*350*621	1x650*350*755	1x650*350*889	1x650*350*1023	1x650*350*1157
Quantity S1 BAT 2.5	pcs	3	4	5	6	7
Quantity S1 BASE	pcs	1	1	1	1	1
Quantity S1 BMS	pcs	1	1	1	1	1
Quantity S1 MULTI	pcs	0	0	0	0	0
Model	Unit	S1 BAT 20	S1 BAT 22.5	S1 BAT 25	S1 BAT 30	S1 BAT 35
Nominal energy ³	kWh	20,5	23,0	25,6	30,7	35,8
Max. charging power grid	kW	16	18	20	12	14
Max. charging power PV	kW	16	18	20	12	14
Max. charging power total	kW	16	18	20	12	14
Max. discharging grid/backup	kW	16	18	20	22	22
Quantity of battery towers	pcs	1	1	1	2	2
Battery weight	kg	285	317	349	448	512
Dimensions (Towers x W*H*D)	mm	1x650*350*1291	1x650*350*1425	1x650*350*1559	2x650*350*1023	2x650*350*1157
Quantity S1 BAT 2.5	pcs	8	9	10	12	14
Quantity S1 BASE	pcs	1	1	1	2	2
Quantity S1 BMS	pcs	1	1	1	2	2
Quantity S1 MULTI	pcs	0	0	0	1	1
Model	Unit	S1 BAT 37.5	S1 BAT 40	S1 BAT 45	S1 BAT 50	S1 BAT 52.5
Nominal energy ³	kWh	38,4	41,0	46,1	51,2	53,8
Max. charging power grid	kW	10	16	18	20	14
Max. charging power PV	kW	10	16	18	20	14
Max. charging power total	kW	10	16	18	20	14
Max. discharging grid/backup	kW	22	22	22	22	22
Quantity of battery towers	pcs	3	2	2	2	3
Battery weight	kg	573	576	640	704	765
Dimensions (Towers x W*H*D)	mm	3x650*350*889	2x650*350*1291	2x650*350*1425	2x650*350*1559	3x650*350*1157
Quantity S1 BAT 2.5	pcs	15	16	18	20	21
Quantity S1 BASE	pcs	3	2	2	2	3
Quantity S1 BMS	pcs	3	2	2	2	3
Quantity S1 MULTI	pcs	1	1	1	1	1
Model	Unit	S1 BAT 60	S1 BAT 67.5	S1 BAT 75		
Nominal energy ³	kWh	61,4	69,1	76,8		
Max. charging power grid	kW	16	18	20		
Max. charging power PV	kW	16	18	20		
Max. charging power total	kW	16	18	20		
Max. discharging grid/backup	kW	22	22	22		
Quantity of battery towers	pcs	3	3	3		
Battery weight	kg	861	957	1053		
Dimensions (Towers x W*H*D)	mm	3x650*350*1291	3x650*350*1425	3x650*350*1559		
Quantity S1 BAT 2.5	pcs	24	27	30		
Quantity S1 BASE	pcs	3	3	3		
Quantity S1 BMS	pcs	3	3	3		
Quantity S1 MULTI	pcs	1	1	1		

³ Usable DC capacity at 100% DOD, C0.2 charge and discharge rate, +25°C ambient temperature



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DATASHEET

batterX home i30

Model	Unit	S1 BAT 7.5	S1 BAT 10	S1 BAT 12.5	S1 BAT 15	S1 BAT 17.5
Nominal energy ³	kWh	7,7	10,2	12,8	15,4	17,9
Max. charging power grid	kW	8	10	13	15	18
Max. charging power PV	kW	8	10	13	15	18
Max. charging power total	kW	8	10	13	15	18
Max. discharging grid/backup	kW	8	10	13	15	18
Quantity of battery towers	pcs	1	1	1	1	1
Battery weight	kg	125	157	189	221	253
Dimensions (Towers x W*H*D)	mm	1x650*350*621	1x650*350*755	1x650*350*889	1x650*350*1023	1x650*350*1157
Quantity S1 BAT 2.5	pcs	3	4	5	6	7
Quantity S1 BASE	pcs	1	1	1	1	1
Quantity S1 BMS	pcs	1	1	1	1	1
Quantity S1 MULTI	pcs	0	0	0	0	0
Model	Unit	S1 BAT 20	S1 BAT 22.5	S1 BAT 25	S1 BAT 30	S1 BAT 35
Nominal energy ³	kWh	20,5	23,0	25,6	30,7	35,8
Max. charging power grid	kW	20	23	26	30	30
Max. charging power PV	kW	20	23	26	31	36
Max. charging power total	kW	20	23	26	31	36
Max. discharging grid/backup	kW	20	23	26	31	33
Quantity of battery towers	pcs	1	1	1	2	2
Battery weight	kg	285	317	349	448	512
Dimensions (Towers x W*H*D)	mm	1x650*350*1291	1x650*350*1425	1x650*350*1559	2x650*350*1023	2x650*350*1157
Quantity S1 BAT 2.5	pcs	8	9	10	12	14
Quantity S1 BASE	pcs	1	1	1	2	2
Quantity S1 BMS	pcs	1	1	1	2	2
Quantity S1 MULTI	pcs	0	0	0	1	1
Model	Unit	S1 BAT 37.5	S1 BAT 40	S1 BAT 45	S1 BAT 50	S1 BAT 52.5
Nominal energy ³	kWh	38,4	41,0	46,1	51,2	53,8
Max. charging power grid	kW	26	30	30	30	30
Max. charging power PV	kW	26	41	45	45	36
Max. charging power total	kW	26	41	46	51	36
Max. discharging grid/backup	kW	26	33	33	33	33
Quantity of battery towers	pcs	3	2	2	2	3
Battery weight	kg	573	576	640	704	765
Dimensions (Towers x W*H*D)	mm	3x650*350*889	2x650*350*1291	2x650*350*1425	2x650*350*1559	3x650*350*1157
Quantity S1 BAT 2.5	pcs	15	16	18	20	21
Quantity S1 BASE	pcs	3	2	2	2	3
Quantity S1 BMS	pcs	3	2	2	2	3
Quantity S1 MULTI	pcs	1	1	1	1	1
Model	Unit	S1 BAT 60	S1 BAT 67.5	S1 BAT 75		
Nominal energy ³	kWh	61,4	69,1	76,8		
Max. charging power grid	kW	30	30	30		
Max. charging power PV	kW	41	45	45		
Max. charging power total	kW	41	46	51		
Max. discharging grid/backup	kW	33	33	33		
Quantity of battery towers	pcs	3	3	3		
Battery weight	kg	861	957	1053		
Dimensions (Towers x W*H*D)	mm	3x650*350*1291	3x650*350*1425	3x650*350*1559		
Quantity S1 BAT 2.5	pcs	24	27	30		
Quantity S1 BASE	pcs	3	3	3		
Quantity S1 BMS	pcs	3	3	3		
Quantity S1 MULTI	pcs	1	1	1		

³ Usable DC capacity at 100% DOD, C0.2 charge and discharge rate, +25°C ambient temperature

