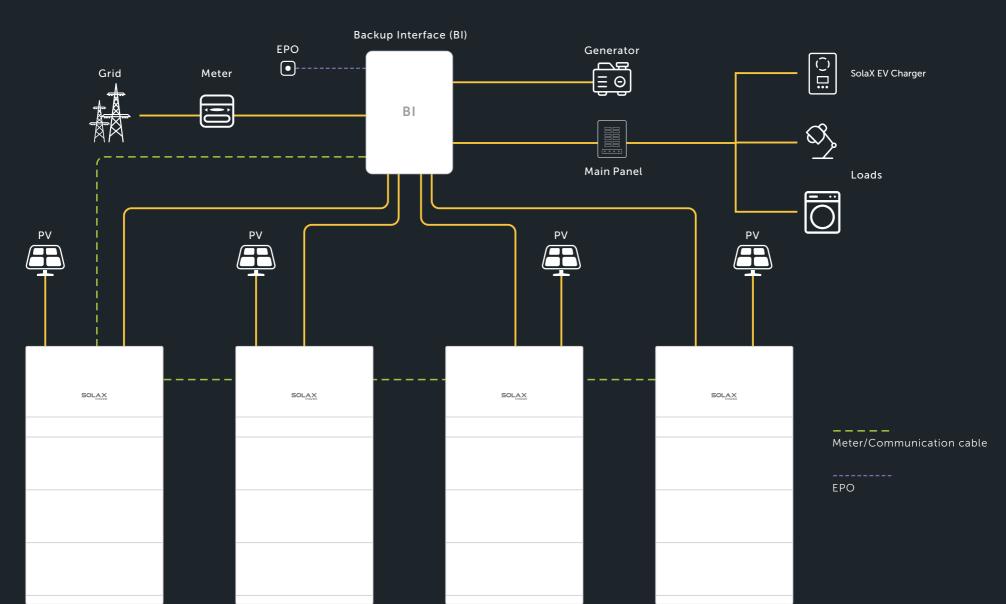
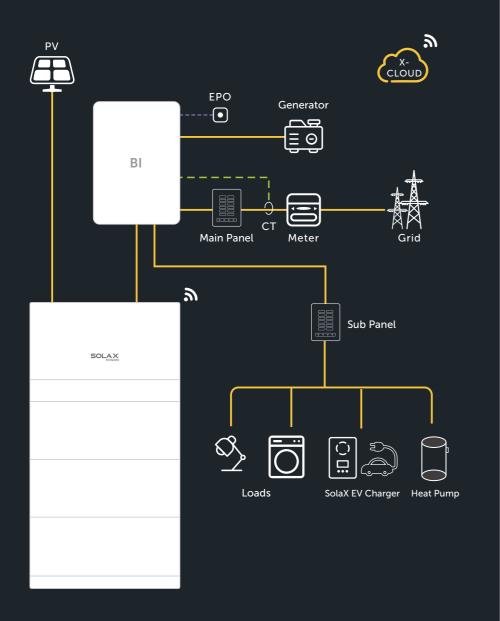


### ENERGY STORAGE SYSTEM (PARALLEL OPERATION)

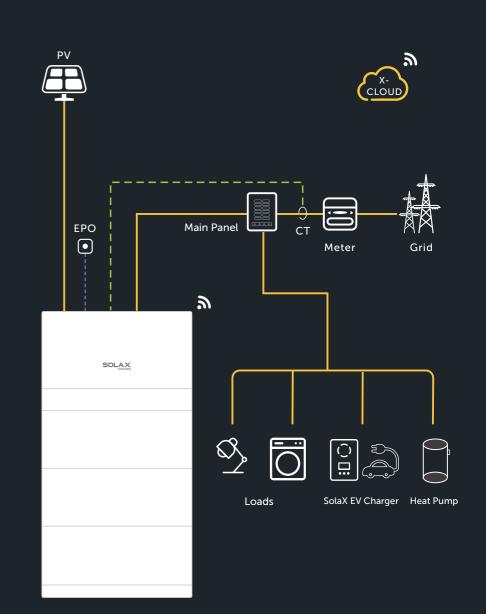
- Friendly with existing PV system
- Up to 4 battery modules stackable, 20kWh each system
- Up to 4 systems in parallel, 7.6kW \*4 =30.4kW, 20kWh\*4=80kWh
- 160A BI supported



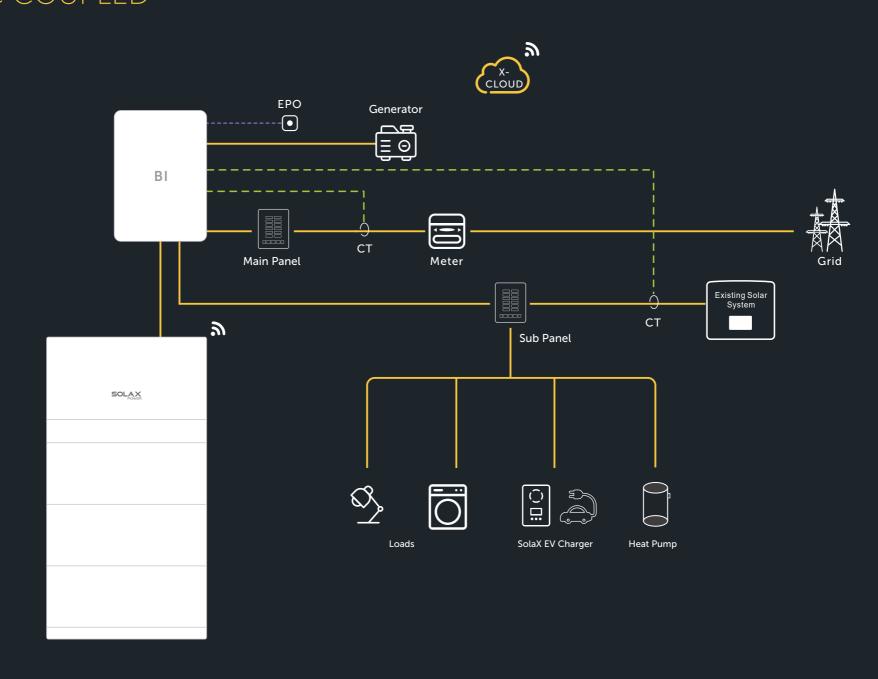
# FLEXIBLE HOME BACKUP SOLUTION



## FLEXIBLE HOME ON-GRID SOLUTION



# FLEXIBLE HOME BACKUP SOLUTION AC COUPLED





#### A1-HYB-G2

- Up to 200% oversizing allowed
- Up to 3 MPPTs
- Maximum 16A PV input current
- Microgrid supported
- Optional revenue grade metering  $\bullet~$  Up to 4 systems in parallel  $^{\circledR}$
- Peak efficiency: 98%
- Integrated arc fault protection and rapid shutdown transmitter

### T-BAT-SYS-HV-5.0

- Long life & Safe LPF battery
- Up to 4 battery modules stackable, 20kWh each system
- Modular design & Quick installation
- Floor or wall mounted



### A1-BI-200-G2

- Maximum 160A AC current
- Flexible home backup • Up to 4 systems in parallel
- 64A generator supported
- Built-in energy management meter Smart load management <sup>②</sup>
- Heat pump extendable <sup>②</sup> • EV charger extendable <sup>®</sup>

A1-HYB-G2	A1-HYB-3.8-G2	A1-HYB-5.0-G2	A1-HYB-6.0-G2	A1-HYB-7.6-G2	
NPUT PV		5.0 0.0 0.2	7.E 1115 0.0-GE		
Maximum recommended PV power [W]  Maximum DC voltage [V]	7600	10000	10000	15200	
Norminal DC operating voltage [V]		3	560		
Maximum input current [A]  Maximum short circuit current [A]	A: 16 / B: 16 A: 20 / B: 20	A: 16 / B: 16 A: 20 / B: 20	A: 16 / B: 16 A: 20 / B: 20	A: 16 / B: 16 / C: 16 A: 20 / B: 20 / C: 20	
MPPT voltage range [V] Start input voltage [V]			-500 20		
No. of MPP trackers, Strings per MPP tracker	2,1/1	2,1/1	2,1/1	3,1/1/1	
DC disconnection switch  NPUT/OUTPUT AC		Y	'ES		
Nominal AC power [VA]	3816	5016	6000	7608	
Maximum apparent AC power [VA]  Nominal AC voltage [V] / Nominal AC frequency [Hz]	3816	5016	6000	7608	
Nominal AC current [A]	15.9	20.9	25	31.7	
Displacement power factor  Total harmonic distortion (THD, rated power)			to 0.8 lagging		
NPUT/OUTPUT BAT					
Battery type  Maximum output power [W]	3816	Li 5016	-ion 6000	7600	
Maximum charge / discharge current [A]  Reverse-polarity protection	54	54	54	54	
Cycle efficiency charging to discharging (PCS)	88.5%	90.5%	YES 91.5%	92.5%	
DDITIONAL FEATURES  AFCI		Y	/ES		
Revenue grade metering, ANSI C12.20		Opt	tional		
Rapid shutdown transmitter  FFICIENCY		Integrated PLC	controller to RSD		
CEC weighted efficiency		97	7.50%		
Maximum inverter efficiency		98	3.00%		
DWER CONSUMPTION  Internal consumption (night) [W]			< 3		
TANDARD					
Safety Emissions	UL1741,		107.1-01, Canadian AFCI according to T.I.: 15 Class B	.L. M-07	
Grid connection standards			e 21, Rule14 (HI)		
Protection class		<i>K</i> 1 ⊏ <i>x</i>	MA 4X		
Operating temperature range [°F / °C]		-13 to +140	) / -25 to +60		
De-rating start temperature [°F / °C]  Storage temperature range [°F / °C]			or above 7 / –25 to +75		
Relative humidity [%]		0 t	0 95		
Altitude [ft / m]  Typical noise emission [dBA]	9843 / 3000 MAX < 30				
Over voltage category		IV (electric suppl	ly side), II (PV side)		
GENERAL  Dimensions (W x H x D) [in / mm]		33 5 × 179 × 5 8	3 / 850 × 455 × 148		
Weight [lb / Kg]			5/34		
Cooling	Natural convection  Transformerless				
Communication interfaces		RS485, CAN, WIFI (optional	l) / 4G (optional), Dry Contact		
Warranty		12 y	years <sup>®</sup>		
A1-AC-G2					
	A1-AC-3.8K-G2	A1-AC-5.0K-G2	A1-AC-6.0K-G2	A1-AC-7.6K-G2	
NPUT/OUTPUT AC  Nominal AC power [VA]	3816	5016	6000	7608	
Maximum apparent AC power [VA]	3816	5016	6000	7608	
Nominal AC voltage [V] / Nominal AC frequency [Hz]  Nominal AC current [A]	15.9	20.9	25	31.7	
Displacement power factor  Total harmonic distortion (THD, rated power)			to 0.8 lagging 3%		
PUT/OUTPUT BAT			5/6		
Battery type			-ion		
Maximum output power [W]  Maximum charge / discharge current [A]	3816 54	5016 54			
Reverse-polarity protection			/ES	20.5%	
Cycle efficiency charging to discharging (PCS)  ADDITIONAL FEATURES	88.5%	90.5%	91.5%	92.5%	
Revenue grade metering, ANSI C12.20		Ор	ptional		
fficiency					
Maximum inverter efficiency POWER CONSUMPTION		98	3.00%		
Internal consumption (night) [W]	< 3				
TANDARD	1114744 1114744 CA CCA COOCAL ACTA CA				
Safety	UL1741, UL1741 SA, CSA - C22.2 No. 107.1-01 FCC Part 15 Class B				
Grid connection standards			e 21, Rule14 (HI)		
NSTALLATION SPECIFICATIONS  Protection class		NIF	MA 4X		
Operating temperature range [°F / °C]	NEMA 4X -13 to +140 / -25 to +60				
De-rating start temperature [°F / °C] Storage temperature range [°F / °C]	113 / 45 or above -13 to +167 / -25 to +75				
Relative humidity [%]	-13 to +167 / -25 to +75 0 to 95				
Altitude [ft / m]  Typical noise emission [dBA]	9843 / 3000 MAX < 30				
Over voltage category	< 30  IV (electric supply side)				
ENERAL			1050		
Dimensions (WxHxD) [in / mm] Weight [lb / Kg]			/ 850 × 455 × 148 / 34		
Cooling		Natural c	convection		
Topology			ormerless ) / 4G (optional), Dry Contact		
Communication interfaces			rears <sup>®</sup>		
Communication interfaces Warranty					
Warranty					
	T-BAT H 10.0	T-BA	Г Н 15.0	T-BAT H 20.0	
T-BAT-SYS-HV-5.0	T-BAT H 10.0			T-BAT H 20.0	
T-BAT-SYS-HV-5.0  MODEL  Battery type		100Ah Li	ithium (LFP)		
T-BAT-SYS-HV-5.0  NODEL  Battery type Component	<b>T-BAT H 10.0</b> TBMS-MCS60060 + 2*TP-HS50	100Ah Li		T-BAT H 20.0  TBMS-MCS60060 + 4*TP-HS50	
T-BAT-SYS-HV-5.0  NODEL Battery type Component IOMINAL CHARACTER Voltage [V]	TBMS-MCS60060 + 2*TP-HS50	100Ah Li TBMS-MCS600	ithium (LFP) 160 + 3*TP-HS50	TBMS-MCS60060 + 4*TP-HS50	
T-BAT-SYS-HV-5.0  MODEL Battery type Component NOMINAL CHARACTER	TBMS-MCS60060 + 2*TP-HS50	100Ah Li TBMS-MCS600 15	ithium (LFP) 160 + 3*TP-HS50	TBMS-MCS60060 + 4*TP-HS50	
T-BAT-SYS-HV-5.0  MODEL Battery type Component NOMINAL CHARACTER Voltage [V] Operating voltage range [V]	TBMS-MCS60060 + 2*TP-HS50  102.4  90 - 116	100Ah Li TBMS-MCS600  15 135	ithium (LFP) 160 + 3*TP-HS50 53.6 - 174	TBMS-MCS60060 + 4*TP-HS50  204.8  180 - 232	

	T-BAT H 10.0	T-BAT H 15.0	T-BAT H 20.0		
ODEL					
Battery type	100Ah Lithium (LFP)				
Component	TBMS-MCS60060 + 2*TP-HS50 TBMS-MCS60060 + 3*TP-HS50		TBMS-MCS60060 + 4*TP-HS50		
IOMINAL CHARACTER					
Voltage [V]	102.4	153.6	204.8		
Operating voltage range [V]	90 - 116	135 - 174	180 - 232		
Total energy [kWh]	10		20		
Usable energy [kWh] <sup>④</sup>	9	13.5	18		
Battery roundtrip efficiency [%] <sup>(5)</sup>		95%			
Maximum power [kW]	5.5	8.3	11.1		
Maximum charge / discharge current [A]		54			
Cycle life (90% DOD)		6000 cycles			
Warranty	12	$^{ m 2}$ years $^{ m (Details}$ refer to SolaX Power warranty statement.)			
NSTALLATION SPECIFICATIONS					
Charge / Discharge temperature range [°F / °C]	Charge: 32 to 127.4 / 0 to 53, Discharge: 14 to 127.4 / -10 to 53				
Storage temperature range [°F / °C]	3 months: 4 to 122 / -20 to 50, 1 year: 32 to 104 / 0 to 40				
	0 to 100				
Relative humidity [%]	9843 / 3000 MAX				
Relative humidity [%] Altitude [ft / m]		9843 / 3000 MAX			
		9843 / 3000 MAX NEMA 4X			
Altitude [ft / m] Protection class					
Altitude [ft / m]					
Altitude [ft / m] Protection class TANDARD		NEMA 4X			
Altitude [ft / m] Protection class  TANDARD  Certification Hazardous materials classification		NEMA 4X UN38.3, UL1973, UL9540, UL9540A			
Altitude [ft / m] Protection class  TANDARD  Certification		NEMA 4X UN38.3, UL1973, UL9540, UL9540A			
Altitude [ft / m] Protection class  TANDARD  Certification Hazardous materials classification  GENERAL		NEMA 4X UN38.3, UL1973, UL9540, UL9540A Class 9			
Altitude [ft / m] Protection class  TANDARD  Certification Hazardous materials classification  GENERAL  Cooling	33.5 x 23.6 x 5.8 / 850 x 600 x 148	NEMA 4X UN38.3, UL1973, UL9540, UL9540A Class 9  Natural convection	33.5 × 47.2 × 5.8 / 850 × 1200 × 148		
Altitude [ft / m] Protection class  TANDARD  Certification Hazardous materials classification  GENERAL  Cooling Dimensions (W x H x D) [in / mm] - TBMS-MC60060 (BMS)	33.5 × 23.6 × 5.8 / 850 × 600 × 148	NEMA 4X  UN38.3, UL1973, UL9540, UL9540A  Class 9  Natural convection  33.5 x 5.2 x 5.8 / 850 x 133 x 148	33.5 x 47.2 x 5.8 / 850 x 1200 x 148		

A1-BI-200-G2	
GRID INPUT	
Nominal AC input voltage [V]	120 / 240
Nominal AC frequency [Hz]	50 / 60
Maximum AC input current [A]	160
DUTPUT TO MAIN PANEL IN GRID TIED OPERATION	
Nominal AC output voltage [V]	120 / 240
Maximum AC input current [A]	160
DUTPUT TO MAIN PANEL IN BACKUP OPERATION	
Nominal AC output voltage [V]	120 / 240
Imbalance compensation in backup operation [VA]	5000
Split phase imbalance output current [A]	41.7
Maximum AC output current [A]	126.8
NPUT FROM INVERTER	
Maximum number of inverter inputs	4
Maximum AC power [W]	7600
Maximum continuous input current @240V [A]	31.7
Maximum inverter input AC circuit breaker [A]	40 (optional)
Upgradability	Up to 4 x 40A circuit breaker
GENERATOR	
Maximum AC power [W]	15000
Maximum continuous input current [A]	63
Auto generator start	Yes
GENERAL	
Dimensions (HxWxD) [in / mm]	27.8 x 17.7 x 5.9 / 706 x 450 x 151
Weight [lb / kg]	69.4 / 31.5
Energy meter accuracy	1%
Communication interfaces	RS485, CAN, Dry Contact
Cooling	Fan
Warranty	12 years®
STANDARD	
Safety	UL1741, CSA 22.2 NO.107
Emissions	FCC part 15 Class B
INSTALLATION SPECIFICATIONS	
Altitude [ft / m]	9843 / 3000 MAX
Operating temperature range [°F / °C]	-13 to +140 / -25 to +60
Protection class	NEMA 3R
Typical noise emission [dBA]	< 50

< 50