

T-BAT-SYS-LV D53

System Parameters	T-BAT LD53	T-BAT LD106	T-BAT LD159	T-BAT LD212	T-BAT LD265	T-BAT LD318	T-BAT LD371	T-BAT LD424
Number of Module Serie	1	2	3	4	5	6	7	8
Nominal Capacity [kWh]	5.3	10.6	15.9	21.2	26.6	31.9	37.2	42.5
Usable Capacity (90% DOD) ^① [kWh]	4.7	9.5	14.3	19.1	23.9	28.7	33.5	38.3
Max. Output Current [A] ^②	100				120			
Peak Discharge Current [A, s]				200, 10				

System Parameters	T-BAT LD477	T-BAT LD530	T-BAT LD583	T-BAT LD636	T-BAT LD689	T-BAT LD742	T-BAT LD795	T-BAT LD848
Number of Module Serie	9	10	11	12	13	14	15	16
Nominal Capacity [kWh]	47.9	53.2	58.5	63.8	69.2	74.5	79.8	85.1
Usable Capacity (90% DOD) ^① [kWh]	43.1	47.9	52.7	57.5	62.3	67.0	71.8	76.6
Max. Output Current [A] ^②				120				
Peak Discharge Current [A, s]				200, 10				

General Information

Weight [kg]	48.5
Dimension (L x W x H) [mm]	645 x 150 x 430
Nominal Voltage [V]	51.2
Operating Voltage Range [V]	45 to 58
Battery Type	Lithium Iron Phosphate
Communication Port	CAN / RS485
Operation Temperature [°C]	0 to 53 (charge) ; -20 to 53 (discharge)
Storage Temperature [°C]	30 to 50 (6 months) ; -20 to 30 (12 months)
Ingress Protection	IP65
Colling concept	Natural
Relative humidity [%]	5 to 95 (Non-condensing)
Altitude [m]	< 3000
Warranty ^④ [years]	10
Cycle Life ^③ [90% DOD]	> 6000
Certification	IEC62619, IEC62040, CE, UN38.3

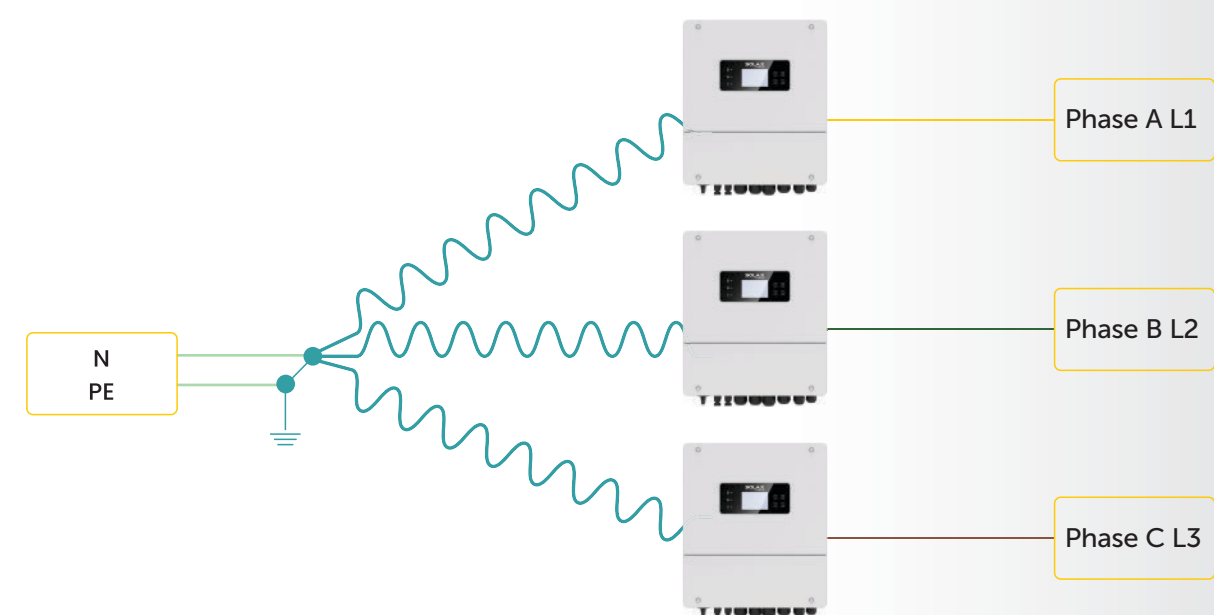
① Test conditions: 90% DOD, 0.2C charge & discharge @+25 °C

② Current is affected by the number of batteries connected in parallel as well as temperature and SOC

③ 25°C ± 2°C, 0.5C / 0.5C, 70 % EOL > 6000

④ The warranty is due whichever reached first of warranty period or energy throughput

3 single phase inverters make up a three-phase system



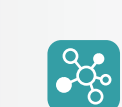
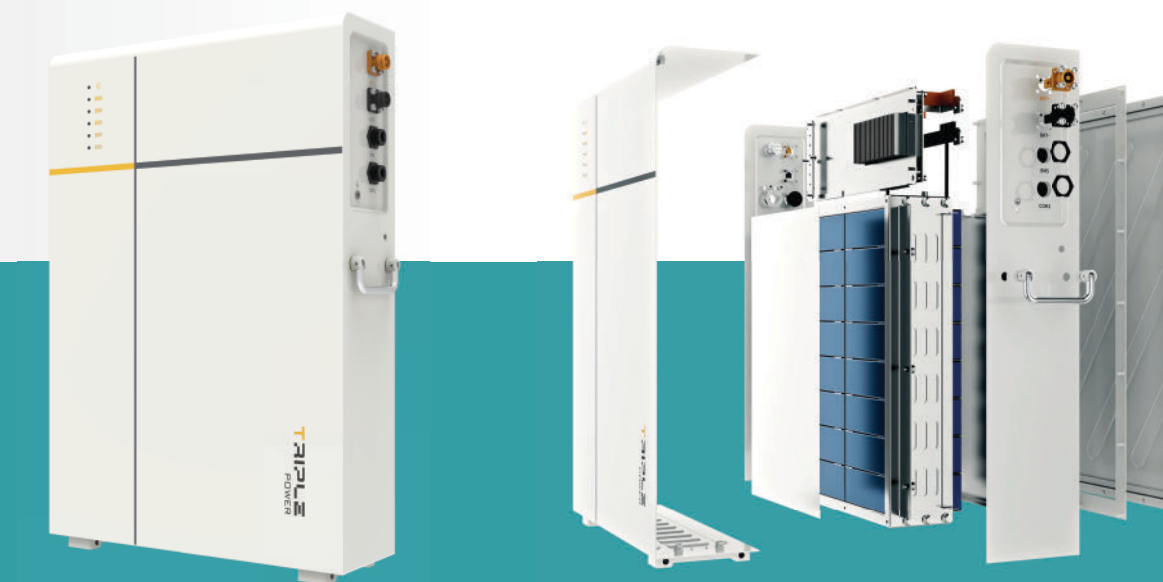
T-BAT-SYS-LV-D53

X1-Hybrid LV 3~6kW

Single Phase | Low Voltage

BY SOLAX
TRIPLE
POWER

T-BAT-SYS-LV-D53



Flexibility

- Modular design, expandable to 16 units in parallel max. 85kWh capacity
- Available in Wall-Mounted or Floor-Mounted Options



High Performance

- High SOC and accuracy through adaptive corrections
- Automotive-grade CAN communication for exceptional hardware performance
- Adaptive cut-off enables continuous operation in parallel, even if one battery fails



Smart Management

- AI-driven real-time monitoring for minimized system risk
- AI-driven battery fault diagnosis for accurate detection



User Friendly

- Continuous OTA one-click upgrades



Safe and Durable

- Cobalt-Free LFP Battery: Safe, Long-lasting, Efficient, High Energy Density

Global: +86 571-56260008
PL: +48 662 430 292

AU: +61 1300 476 529
DE: +49 (0) 6142 4091 664

UK: +44 2476 586998
NED: +31 (0) 8527 37932



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V1.0. Information may be subject to modify without notice. 650.00066.00

BY SOLAX
TRIPLE
POWER

X1-HYB-LV

X1-HYB-3.0-LV X1-HYB-3.7-LV X1-HYB-4.0-LV X1-HYB-4.6-LV X1-HYB-5.0-LV X1-HYB-6.0-LV

DC INPUT						
Max. PV array power [Wp]	6000	7360	8000	9200	10000	12000
Max. PV input power (PV1+PV2) [Wp]	4500	5500	6000	6900	7500	9000
Max. PV input voltage [V]	550					
Start output voltage [V]	110					
Nominal input voltage [V]	360					
MPPT voltage range [V]	80 ~ 520					
No. of independent MPPT / strings per MPPT	2 / 2					
Max. input current [A]	16 / 16					
Max. short circuit current [A]	20 / 20					
AC INPUT & OUTPUT						
Nominal AC output power [W]	3000	3680	4000	4600	5000	6000
Max. AC output apparent power [VA]	3300	3680	4400	4600 (Germany 4600)	5000	6000
Max. AC output current [A]	15	16	20	20.9 (Germany 20)	22.7	27.3
Max. AC input apparent power [VA]	6000	7360	8000	9200	9200	9200
Max. AC input current [A]	26.1	32	34.8	40	40	40
Nominal voltage [V], frequency [Hz]	220 / 230 / 240, 50 / 60					
Displacement power factor	0.8 leading ~ 0.8 lagging					
THDi (rated power) [%]	< 3					
BATTERY DATA						
Battery type	Lithium / Lead-Acid					
Max. charging / discharging current [A]	75					
Battery voltage range [V]	40 ~ 60					
Nominal battery voltage [V]	48					
EPS OUTPUT (WITH BATTERY)						
Nominal output apparent power [VA]	3000	3680	4000	4600	5000	6000
Peak apparent power [VA, s] ^①	6000, 10	7360, 10	8000, 10	9200, 10	10000, 10	12000, 10
Nominal output current [A]	13	16	17.4	20	21.7	26.1
Nominal voltage [V], frequency [Hz]	230, 50 / 60					
Switch time [ms]	< 4					
Efficiency						
MPPT Efficiency [%]	> 99.9					
Max. efficiency [%]	97.6					
Euro. efficiency [%]	97.0					
POWER CONSUMPTION						
Self consumption (night) [W]	Standby < 40, Shutdown < 10					
ENVIRONMENT LIMIT						
Degree of protection	IP65					
Operating temperature range [°C]	-25 ~ +60 (derating above +45)					
Relative humidity [%]	4 ~ 100					
Max. operation altitude [m]	< 3000					
Noise emission (typical) [dB]	< 39					
Storage temperature [°C]	-25 ~ +70					
GENERAL						
Dimensions (WxHxD) [mm]	397 x 490 x 201					
Net weight [kg]	16.5					
Cooling concept	Natural					
Topology	Transformerless for PV side / HF for battery side					
HMI Interface	LED + LCD					
Communication interfaces	CAN, RS485, CT, Meter, USB, NTC, WiFi, WiFi+Lan					
Warranty [years]	5					
STANDARD						
Safety	EN IEC 62109-1 / -2					
EMC	BS EN 50065-1					
Certification	NRS 097-2-1, IEC 61727, IEC 62116, PEA, MEA, BIS					

Note:
 ① To be released in Q3 2024
 ② Depend on PV and battery capacity

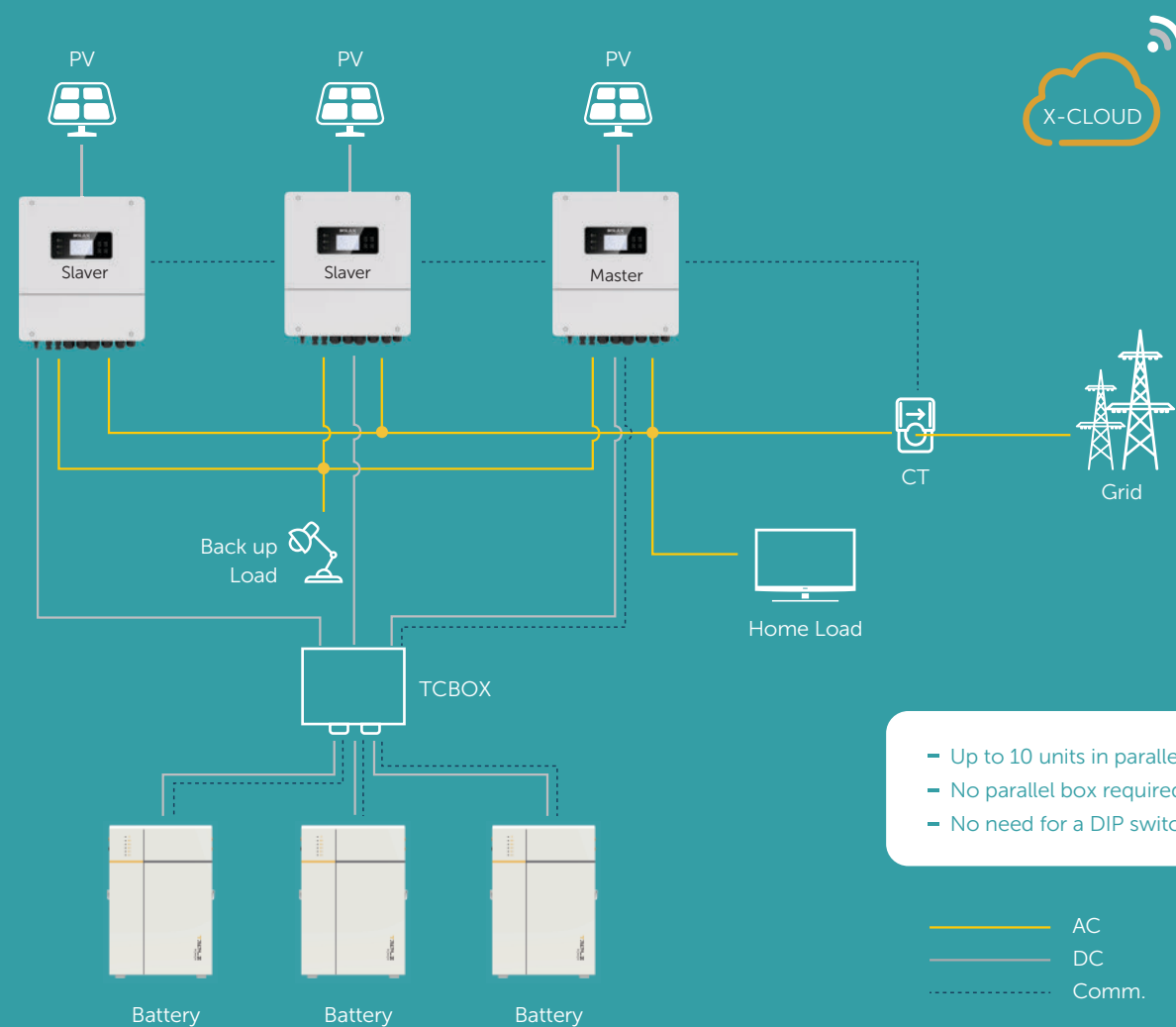
X1-Hybrid LV 3~6kW



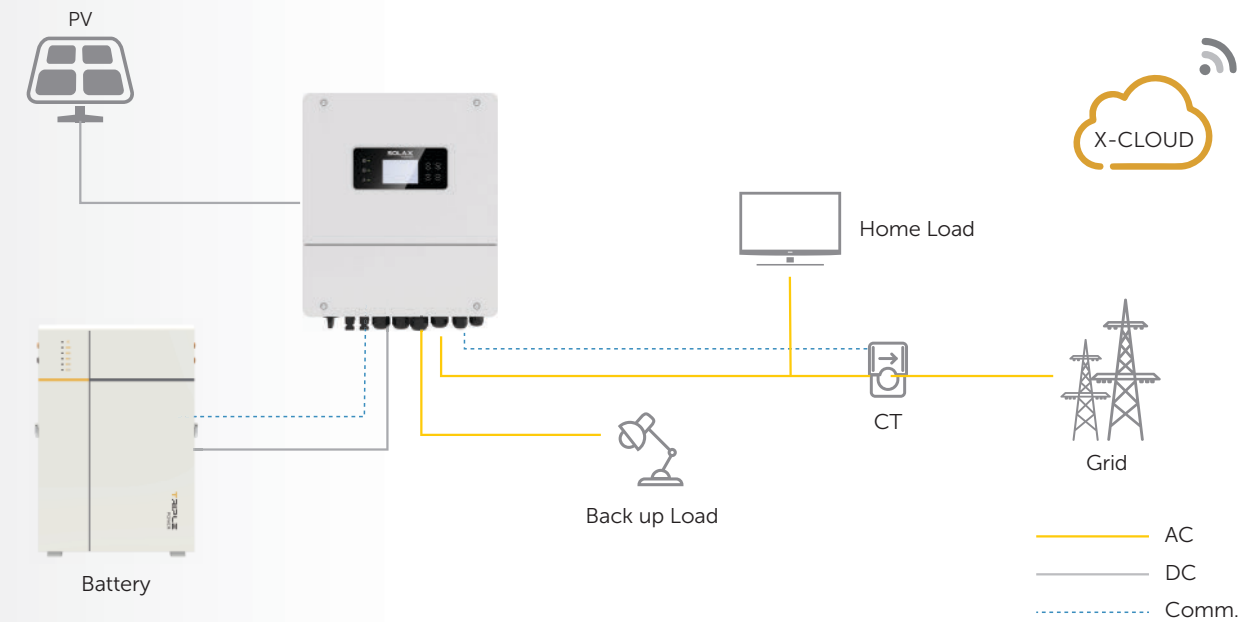
- Battery or battery-less operation supported
- Single or three-phase synchronization
- Optimized UI design
- Sync with generators for reliable backup power
- Smart energy management to avoid peak time bills
- Support up to 10 parallel units

System Solutions

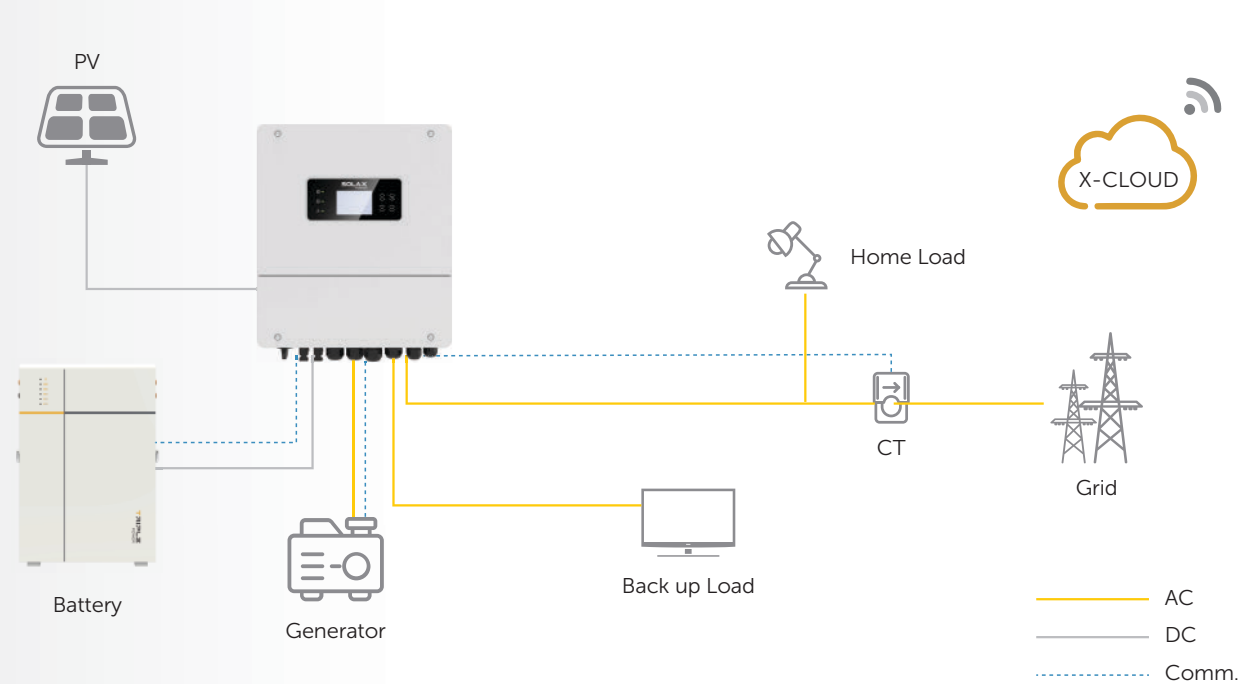
Parallel Connection



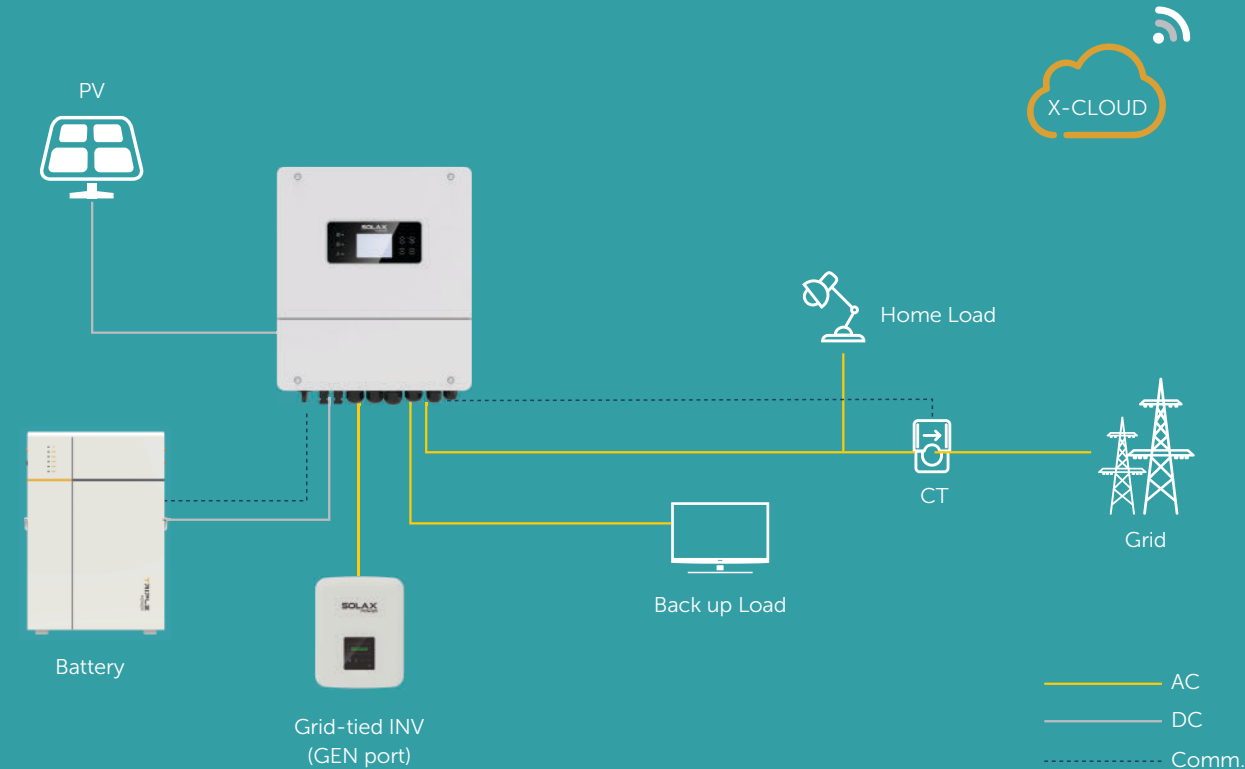
Basic solution



Generator



Micro-grid



Intelligent Load | Connected at GEN port

