



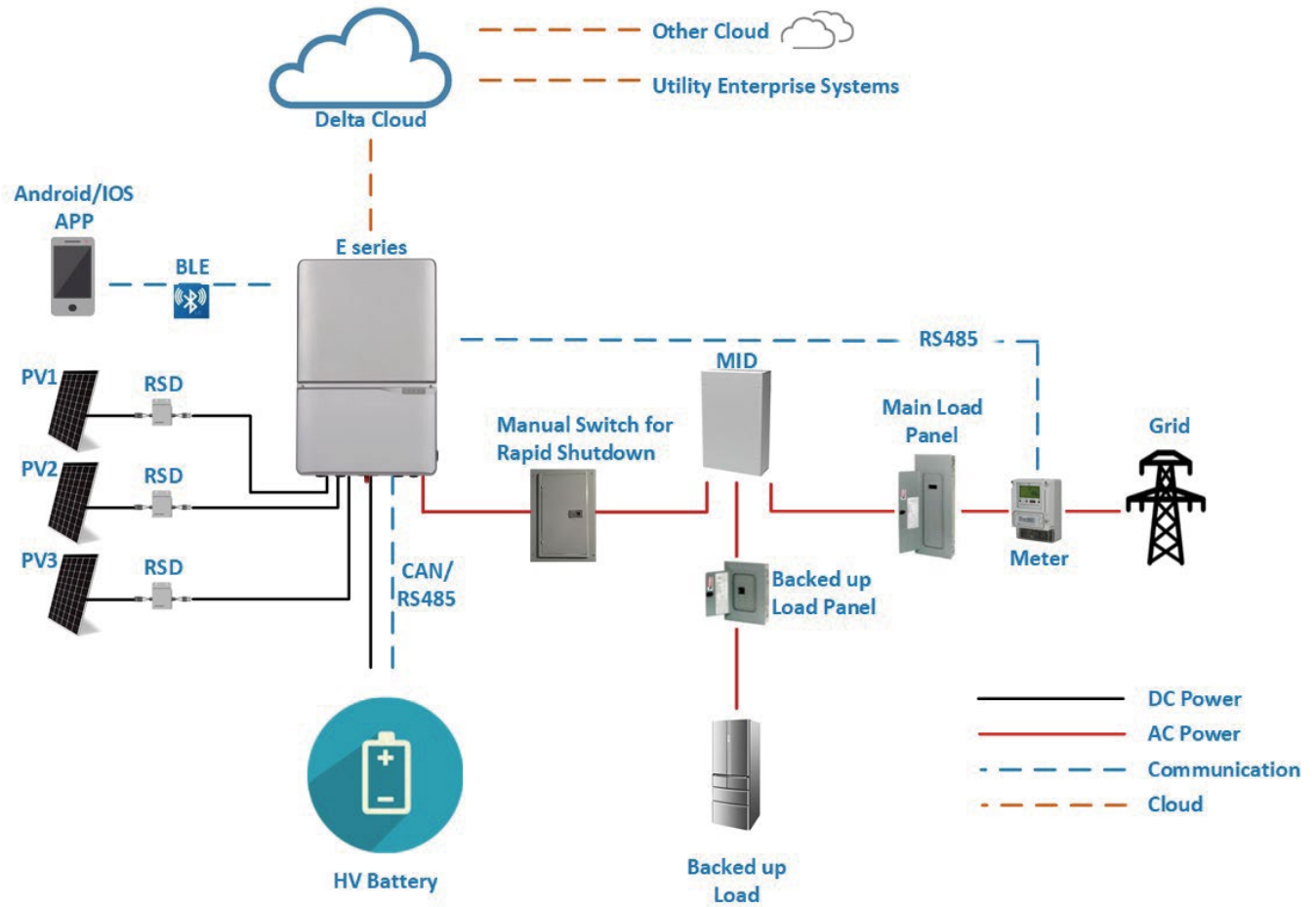
## Energy Storage Solution

# Residential Energy Storage Solution / Ex-TL-US

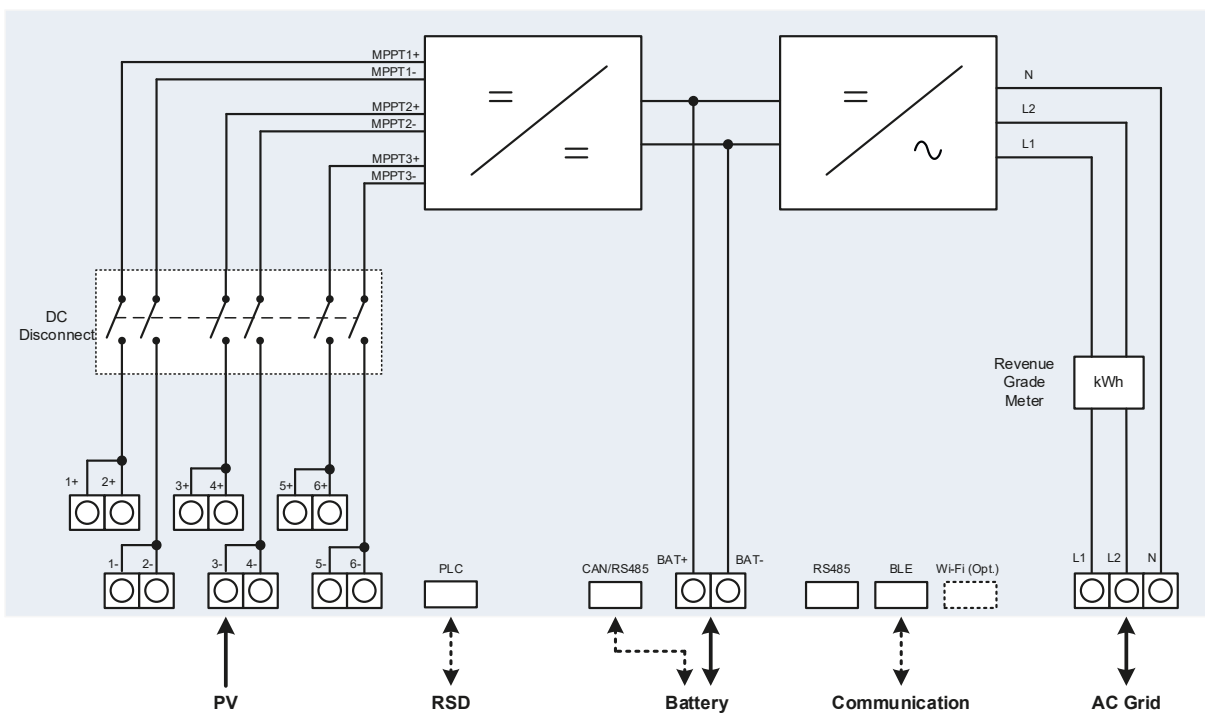
- UL9540 compliant Li-ion battery energy storage system
- Smart inverter with BLE, optional WiFi, Ethernet, 3G / 4G cellular communication
- Optional revenue grade meter (compliant with ANSI C12.20, Class 0.5)
- Built-in EMS including self-consumption, zero export, TOU and back-up operations
- Support either DC-coupled or AC-coupled systems
- Support bi-directional cloud communication, remote diagnosis and OTA
- Integrated AFCI & Rapid shutdown controller
- UL 1741 SB, HECO compliant
- CA Rule 21 Phase 1 & 2 & 3 compliant



# System Configuration



# Block Diagram



# Specifications

Model Name	E4-TL-US	E6-TL-US	E8-TL-US	E8 Plus-TL-US	E10-TL-US
<b>Battery Port</b>					
Compatible Battery Pack Size	5 kWh to 32 kWh				
Nominal I/O Power	5000 W / 7000 W				
Acceptable Input Voltage Range	350 V to 450 V				
Nominal I/O Current	15 A			28.5 A	
Round Trip Efficiency (PCS Only)	Peak > 97.5%				
Fuse Rating	30 A	30 A	40 A	50 A	50 A
Battery Terminal	Spring Type				
<b>PV Input</b>					
Absolute Maximum Input Voltage	480 V				
Start-up Voltage	120 V				
Operating MPPT Voltage Range	50 V to 480 V				
Max. Continuous Input Current per MPPT	12 A	12 A	12 A	12 A	12 A
Max. Module Short Circuit Current per MPPT	18 A	18 A	18 A	18 A	18 A
MPP Tracker	3	3	3	4	4
Maximum DC/AC Ratio	1.3				
Maximum Allowable MPPT In-paralleled	2 (String)				
MPPT Scan (Shading Option)	~ 15min (high) / ~ 30min (default) / ~ 60min (low)				
PV Terminal	Spring Type				
<b>AC Port (On-grid Mode)</b>					
Nominal Output Power @ 240Vac	3840 W	5760 W	7680 W	7680 W	9600 W
Maximum Output Power @ 240Vac	4000 W	6000 W	8000 W	8000 W	10000 W
Nominal Output Power @ 208Vac	3328 W	4992 W	6656 W	6656 W	8320 W
Maximum Output Power @ 208Vac	3648 W	5472 W	7296 W	7296 W	9120 W
AC Operating Voltage Range	183 Vac to 228 Vac @ 208 Vac / 211 Vac to 264 Vac @ 240 Vac				
Maximum Continuous Current	16 A	24 A	32 A	32 A	40 A
Frequency Range	59.3 Hz to 60.5 Hz (operating) / 50 Hz to 66 Hz (adjustable)				
Adjustable Power Factor Range	0.8i to 0.8c				
THD @ Nominal Power	< 3%				
Grid Support Compliance	UL 1741 SB, CA Rule 21 phase 1,2, 3, HECO				
<b>AC Port (Off-grid Mode)</b>					
Maximum Output Power	3840 W	5760 W	7680 W	9600 W	9600 W
Ac Output Voltage	240 Vac				
Maximum Continuous Current	16 A	24 A	32 A	40 A	40 A
Operating Frequency Range	57 Hz to 63 Hz				
THD @ Nominal Power	< 5%				
Maximum Allowed Crest Factor	2.0				
AC Terminal	Spring Type				
<b>General Specification</b>					
Efficiency	Peak Efficiency: 98.0% / CEC Efficiency: 97.5% @240				
Operating Temperature Range	-22 °F to 149 °F (-30 °C to 65 °C)				
Humidity	0 % to 95 %				
Maximum Operating Altitude	9,843 ft (3,000 m)				
Audible Noise	< 45 dB(A) @ 3 ft (1 m)				
<b>Mechanical Design</b>					
Dimensions (W x H x D)	16.7 × 23.2 × 5.9 in (425 × 590 × 150 mm)				
Weight	44.8 lbs (20.3 kg)	44.8 lbs (20.3 kg)	45.7 lbs (20.7 kg)	47.6 lbs (21.6 kg)	47.6 lbs (21.6 kg)
Cooling	Natural Convection				
Enclosure Material	Die-casting Aluminum				
<b>Standards</b>					
Battery Safety	UL 1973 / UL 1974 (Optional depends on battery pack)				
Enclosure Protecting Rating	Type 4				
Certifications	UL 1741, CSA - C22.2 No. 1071-16, UL 1998, UL 1741 CRD, UL 1741 PCS CRD, NEC 705.13, IEEE 1547-2018, IEEE 15471-2020, FCC part 15 Class B, UL 1699B (Type 1), NEC 2020 690.11, NEC 2020 690.12, UL 1741 SA, UL 1741 SB, California Rule 21 phase 1&2&3, HECO Compliant, UL9540				
<b>Warranty</b>					
Standard Warranty	10 years				



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