

HYBRID SERIES

# TriP2-LB-US 6-12K (Three-Phase)

- 120/208V Three-Phase Output
  - 120V (L-N) / 208V (L-L)
  - For global 120/208V three-phase systems
- Independent Phase Control
  - 150% unbalanced output
  - Up to 7.5kW per phase
  - Independent export control on each phase
- Flexible PV Design
  - Max. 3 MPPTs
  - Max. PV input: 18kW
- 48V Low-Voltage Battery Compatible
  - Supports multiple 48V battery brands
  - Lower cost, safer installation
- Time of Use (TOU)
  - 8 programmable charge/discharge periods
- Scalable & Reliable
  - Up to 10 units in parallel
  - On-grid & off-grid support



Low Voltage



Model	TriP2-LB-US 6K	TriP2-LB-US 8K	TriP2-LB-US 10K	TriP2-LB-US 12K
<b>Input (PV DC)</b>				
Max. PV input power (W)	9000	12000	15000	18000
Rated PV input voltage (V)	550			
Number of independent MPPT inputs	3 / (1:1:1)			
Max. PV input voltage (V)	650			
MPPT voltage range (V)	200 ~ 600			
Start-up voltage (V)	100			
Max. PV input current per MPPT	20 / 20 / 20			
Max. PV short-circuit current input per MPPT (A)	25 / 25 / 25			
<b>Battery</b>				
Compatible battery type	Lithium-ion / Lead-Acid			
Battery voltage range (V)	40-60			
Max. charging/discharging current (A)	150	200	220	250
Max. charging/discharging power (W)	6000	8000	10000	12000
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
<b>Grid</b>				
Rated AC voltage (V)	3L / N / PE, 120 / 208Vac			
Rated AC frequency (Hz)	50 / 60			
Rated AC output power (W)	6000	8000	10000	12000
Rated AC output current (A)	16.7	22.2	27.8	33.3
Max. AC input current (A)	50			
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDI	< 3%			
Max. continuous AC passthrough current (A)	30		50	
<b>GEN</b>				
Rated GEN voltage (V)	3L / N / PE, 120 / 208Vac			
Rated GEN frequency (Hz)	50 / 60			
Rated GEN input current (A)	30			
Rated GEN input power (W)	10800			
<b>UPS</b>				
Rated output power (W)	6000	8000	10000	12000
Rated output voltage (V)	3L / N / PE, 120 / 208Vac			
Rated output current (A)	16.7	22.2	27.8	33.3
Rated output frequency (Hz)	50 / 60			
Surge power, duration	1.5 × rated power for 5min			
Switching time	10ms			
Wave form	Sine wave			
THDV	< 3%			
<b>Efficiency</b>				
Max. efficiency	97.2%	97.3%	97.4%	
Max. charge/discharge efficiency	97.1%	97.2%		
<b>Protection</b>				
PV reverse polarity protection	YES			
PV Insulation Detection	YES			
Over current/voltage protection	YES			
Anti-islanding protection	YES			
AC Short-circuit protection	YES			
Leakage current protection	YES			
Grid monitoring	YES			
DC switch	YES			
Ingress protection	YES			
DC Surge protection	Type III			
AC Surge protection	Type III			
<b>General</b>				
Dimensions ( W × H × D)	480 × 703 × 258 mm / 18.9 × 27.7 × 10.2 in			
Weight	53 kg / 116.85 lbs			
Ingress protection rating	IP66			
Operating environment temperature range (°C)	-25 ~ +60, >45°C derating			
Storage temperature range (°C)	-25 ~ +60			
Relative humidity	0 ~ 100%			
Display & Communication interface	Touch color screen, RS485/Wifi/CAN			
Warranty	5 / 10 years			
Cooling method	Smart cooling			
Topology	Transformerless			
Max. Operating Altitude (m)	2000			
Noise emission (dB)	50			
<b>Standards &amp; Certification</b>				