

HYBRID SERIES

TriP2-LB-3P 5-20K (Three-Phase)

- Supports three-phase unbalanced loads for greater compatibility with mixed residential or commercial applications
- Max. 3 MPPTs with 6 strings, Max. PV input: 30kW
- Compatible with 48V low-voltage battery systems
- Supports independent grid export control for each phase
- Time of use, 8 time periods for charging & discharging
- Max. 10 pcs parallel for on grid & off grid
- Dedicated GEN port for
 - Auto GEN control
 - Smart load function
 - AC coupling function



Low Voltage



Model	TriP2-LB-3P 5K	TriP2-LB-3P 6K	TriP2-LB-3P 8K	TriP2-LB-3P 10K	TriP2-LB-3P 12K	TriP2-LB-3P 15K	TriP2-LB-3P 20K
Input (PV DC)							
Max. PV input power (W)	7500	9000	12000	15000	18000	22500	30000
Rated PV input voltage (V)	690						
Number of independent MPPT inputs	3/(1:1:1)						
Max. PV input voltage (V)	1000						
MPPT voltage range (V)	200~900						
Start-up voltage (V)	100						
Max. PV input current per MPPT (A)	20/20/20						
Max. PV short-circuit current input per MPPT	25/25/25						
Battery							
Compatible battery type	Lithium-ion/Lead-Acid						
Battery voltage range (V)	40-60						
Max. charging/discharging current (A)	125	150	200	220	250	250	250
Max. charging/discharging power (W)	5000	6000	8000	10000	12000	12000	12000
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Input AC (Grid)							
Input voltage(3Φ)	3L/N/PE, 230/400Vac						
Rated AC frequency (Hz)	50/60						
Max. AC input power (W)	6250	7500	10000	12500	15000	18750	25000
Max. AC input current (A)	9	10.9	14.5	18.1	21.8	27.1	36.25
Output AC (Grid)							
Rated AC voltage (V)	3L/N/PE, 230/400Vac						
Rated AC frequency (Hz)	50/60						
Rated AC output power (W)	5000	6000	8000	10000	12000	15000	20000
Rated AC output current (A)	7.20	8.70	11.60	14.50	17.40	21.70	29.00
PF	0.99(Adjustable from 0.8 leading to 0.8 lagging)						
THDI	< 3%						
Max. continuous AC passthrough current (A)	30			50			70
GEN							
Rated GEN voltage (V)	3L/N/PE, 230/400Vac						
Rated GEN frequency (Hz)	50/60						
Rated GEN input current (A)	30						
Rated GEN input power (W)	20700						
UPS							
Rated output power (W)	5000	6000	8000	10000	12000	15000(PV+Battery)	20000(PV+Battery)
Rated output voltage (V)	3L/N/PE, 230/400Vac						
Rated output current (A)	7.20	8.70	11.60	14.50	17.40	21.70	29.00
Rated output frequency (Hz)	50/60						
Surge power, duration	1.5Pn, 5min						
Switching time	≤10ms						
Wave form	Sine wave						
THDV	<3%						
Efficiency							
Max. efficiency	97.70%						
Max. charge/discharge efficiency	94.0%						
Protection							
PV reverse polarity protection	YES						
Over current/voltage protection	YES						
Anti-islanding protection	YES						
AC Short-circuit protection	YES						
Leakage current protecion	YES						
Grid monitoring	YES						
DC switch	YES						
Ingress protection	YES						
DC Surge protection	YES						
AC Surge protection	YES						
General							
Dimensions(W*H*D)	480*703*258mm / 18.9*27.7*10.2 in						
Weight	53kg / 116.8lbs						
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	Transformer-less						
Altitude(m)	<2000						
Noise emission(typical)	<50dB						
Standards & Certification							

EN 62109/EN 61000, IEC 61683, PTPIREE TypeA