

HYBRID SERIES

TriP2-HB-3P 6-30K (Three-Phase)

- Max. 3 MPPTs and Max. PV input 45kW
- 150% unbalanced output, Max.15kW per phase
- Battery working range: 100~800V
- Max. 30kW UPS output
- Supports independent grid export control for each phase
- Supports up to 10pcs in parallel for on/off grid
- Dedicated GEN port for
 - Auto GEN control
 - Smart load function
 - AC coupling function



High Voltage



Model	TriP2-HB-3P 6K	TriP2-HB-3P 8K	TriP2-HB-3P 10K	TriP2-HB-3P 12K	TriP2-HB-3P 15K	TriP2-HB-3P 20K	TriP2-HB-3P 25K	TriP2-HB-3P 30K
Input (PV DC)								
Max. PV input power (W)	9000	12000	15000	18000	22500	30000	37500	45000
Rated PV input voltage (V)	690							
Number of independent MPPT inputs	2/(1:1)			3/(2:2:2)				
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			40/40/40				
Max. PV short-circuit current input per MPPT	25/25(A:1/B:1)			50/50/50(A:2/B:2/C:2)				
Battery								
Compatible battery type	Lithium-ion/Lead-Acid							
Rated battery voltage (V)	400							
Battery voltage range (V)	100~800							
Max. charging voltage (V)	800							
Max. charging/discharging current (A)	50			75				
Max. charging/discharging power (W)	6000	8000	10000	12000	15000	20000	25000	30000
Force wake up battery from PV function	YES							
Grid								
Rated AC voltage (V)	3L/N/PE, 230/400Vac							
Rated AC frequency (Hz)	50/60							
Rated AC output current (A)	8.7	11.6	14.5	17.4	21.7	29	36.2	43.5
Rated AC output power (W)	6000	8000	10000	12000	15000	20000	25000	30000
Max. AC input current (A)	11.3	17.4	21.8	26.1	32.6	43.5	54.3	65.3
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)							
THDI	<3%							
Max. continuous AC passthrough current (A)	75							
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)	6000	8000	10000	12000	15000	20000	25000	30000
Rated output voltage (V)	3L/N/PE, 230/400Vac							
Rated output current (A)	8.7	11.6	14.5	17.4	21.7	29	36.2	43.5
Rated output frequency (Hz)	50/60							
Surge power, duration	1.5Pn, 5min							
Switching time	≤10ms							
Wave form	Sine wave							
THDV	<3%							
Efficiency								
Max. efficiency	97.4%							
Max. charge/discharge efficiency	97.2%							
Protection								
PV reverse polarity protection	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							
General								
Dimensions (W*H*D)	480*703*258mm / 18.9*27.7*10.2 in							
Weight	TBD			50kg / 110.2lbs				
Ingress protection rating	IP66							
Operating environment temperature range (°C)	-25~60							
Storage temperature range (°C)	-40~70							
Relative humidity	0~100%							
Display & Communication interface	Touch color screen, RS485/Wifi/CAN							
Warranty	5/10 years							
Cooling method	Natural cooling			Smart cooling				
Topology	Transformer-less							
Altitude	<2000							
Noise emission (typical)	<50dB							
Standards & Certification								
EN 62109-1/-2, EN 50549-1, CEI 0-21:2022 (V2:2024-01), PTPIREE TypeA								