

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								