

# HYBRID SERIES

## Three-Phase

# TriP 6-30K

- Max. 3 MPPTs and Max. PV input 45kW
- 150% unbalanced output, Max.15kW per phase
- Battery working range: 100~700V
- Max. 30kW UPS output
- Supports up to 10pcs in parallel for on/off grid
- Separate GEN port
  - Smart load control
  - Up to 21.6kW Gen/AC coupling input



# Specification

INPUT (PV DC)	TriP 6K	TriP 8K	TriP 10K	TriP 12K	TriP 15K	TriP 20K	TriP 30K
Max. PV array power (W)	9000	12000	15000	18000	22500	30000	45000
Rated PV input voltage (V)				690			
Number of independent MPPT inputs	2/(2:2)			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)			
<b>Battery</b>							
Compatible battery type	Lithium-ion/Lead-Acid						
Rated battery voltage (V)	400						
Battery voltage range (V)	100~700						
Max. charge voltage (V)	700						
Max. charge/discharge current (A)	50						
Max. charge/discharge power (W)	6000	8000	10000	12000	15000	20000	30000
Force wake up battery from PV fuction	YES						
<b>Grid</b>							
Rated AC voltage (V)	230/400						
Rated AC frequency (Hz)	50						
Rated AC output current (A)	9.1	12.2	15.2	18.2	22.8	30.3	45.6
Rated AC output power (W)	6000	8000	10000	12000	15000	20000	30000
Max. AC input current (A)	13.6	18.2	22.8	27.3	34.1	45.5	68.2
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)						
THDI	<3%						
Max. continuous AC passthrough current (A)	75						
<b>UPS</b>							
Rated output power (W)	6000	8000	10000	12000	15000	20000	30000
Rated output voltage (V)	230/400						
Rated output current (A)	9.1	12.2	15.2	18.2	22.8	30.3	45.6
Rated output frequency (Hz)	50						
Surge power, duration	1.5Pn, 10s						
Switching time	20ms						
Wave form	Sine wave						
THDV	<3%						
<b>Efficiency</b>							
Max. efficiency	97.4%						
Max.charge/discharge efficiency	97.2%						
<b>Protection</b>							
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 Type III	YES						
AC Surge protection Type III	YES						
<b>General</b>							
Dimensions ( W*H*D )	605*563*257mm/24*22.4*10.2inch						
Weight	38kg/83.8lbs			43kg/94.8lbs			
Ingress protection rating	IP65						
Operating environment temperature range(°C)	-25~60						
Storage temperature range(°C)	-40~70						
Relative humidity	0~100%						
Display & Communication interface	Touch color screen, R5485/Wifi/CAN						
Warranty	5 years						
Cooling method	Natural cooling			Smart cooling			
Topology	Transformer-less						
Altitude	<4000m						
Noise emission (typical)	<50dB						
<b>Standard &amp; Certification</b>							
EN62109-1, EN62109-2, EN62920, EN61000, NRS 097, NTS TYPEA, UNE217001, UNE217002, EN50549-1, EN50549-10, C10/11, TR3.3.1, VDE4105, TOR TYPEA, TOR TYPE B, G99, G100							