

# HYBRID SERIES

Three-Phase

## TriP HV 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



# Specifications

INPUT (PV DC)	TriP 6K	TriP 8K	TriP 10K	TriP 12K	TriP 15K	TriP 20K	TriP 25K	TriP 30K
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/(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	25000	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	36.3	45.6
Rated AC output power (W)	6000	8000	10000	12000	15000	20000	25000	30000
Max. AC input current (A)	13.6	18.2	22.8	27.3	34.1	45.5	56.8	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	25000	30000
Rated output voltage (V)	230/400							
Rated output current (A)	9.1	12.2	15.2	18.2	22.8	30.3	36.3	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							
AC Surge protection	Type III							
<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, RS485/Wifi/CAN							
Warranty	12 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								