

# HYBRID SERIES

## Three-Phase

# TriP 6-20K

- Max. 3 MPPTs and Max. PV input 30kW
- 150% unbalanced output, Max.10kW per phase
- Battery working range: 100~700V
- Max. 20kW 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
Max. PV array power (W)	9000	12000	15000	18000	22500	30000
Reted 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
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
Rated AC output power (W)	6000	8000	10000	12000	15000	20000
Max. AC input current (A)	13.6	18.2	22.8	27.3	34.1	45.5
Max. AC input power (W)	9000	12000	15000	18000	22500	30000
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
Rated output voltage (V)	230/400					
Rated output current (A)	9.1	12.2	15.2	18.2	22.8	30.3
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, RS485/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						