



TriP-LV 5-20K

- Supports Three-phase unbalanced load and half-wave load
- Max. 3 MPPTs with 6 strings, Max. PV input: 30kW
- 48V low voltage battery, transformer isolation design
- Time of use, 8 time periods for charging & discharging
- Max. 6 pcs parallel for on grid & off grid
- Dedicated GEN port for
 - Auto GEN control
 - Smart load function
 - AC coupling function

Specification

INPUT (PV DC)		5kW	6kW	8kW	10kW	12kW	15kW	15kW-Pro	20kW
Max. PV array power (W)		10000	12000	15000	24000	24000	30000	30000	40000
Max. PV input power (W)		7500	9000	12000	15000	18000	22500	22500	30000
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		30/30			50/50/50				
Battery									
Compatible battery type		Lithium-ion/Lead-Acid							
Battery voltage range (V)		40-60							
Max. charge/discharge current (A)		125	150	200	220	250	250	300	350
Max. charge/discharge power (W)		5000	6000	8000	10000	12000	15000	15000	20000
Charging Strategy for Li-ion Battery		Self-adaption to BMS							
Iutput AC (Grid)									
Input voltage range		323-460V							
Rated AC frequency (Hz)		50/60							
Max. AC intput power (W)		6250	7500	10000	12500	15000	18750	18750	25000
Max. input current		9.47	11.36	15.15	18.94	22.73	28.41	28.41	37.88
Output AC (Grid)									
Rated AC voltage (V)		3/N/PE, 380/400							
Rated AC frequency (Hz)		50/60							
Rated AC output power (W)		5000	6000	8000	10000	12000	15000	15000	20000
Rated AC output current (A)		7.58	9.09	12.12	15.15	18.18	22.73	22.73	30.30
Max. AC output apparent power (VA)		6250	7500	10000	12500	15000	18750	18750	25000
Max. AC output current (A)		9.47	11.36	15.15	18.94	22.73	28.41	28.41	37.88
PF		0.99(Adjustable from 0.8 leading to 0.8 lagging)							
THDI		< 3%							
Max. continuous AC passthrough current (A)		30			50			70	
UPS									
Rated output power (W)		5000	6000	8000	10000	12000	15000	15000	20000
Rated output voltage (V)		3/N/PE, 380/400							
Rated output current (A)		7.58	9.09	12.12	15.15	18.18	22.73	22.73	30.30
Rated output frequency (Hz)		50/60							
Surge power, duration		1.5Pn, 10s							
Switching time		20ms							
Wave form		Sine wave							
THDV		<3%							
Efficiency									
Max. efficiency		97.7%							
EU efficiency		97.0%							
Protection									
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 II		YES							
AC Surge protection Type II		YES							
General									
Dimensions (W*H*D)		TBD							
Weight		TBD							
Ingress protection rating		IP66							
Operating environment temperature range(°C)		-25~~+60, >45°C derating							
Storage temperature range(°C)		-25~~+60							
Relative humidity		0~100							
Display & Communication interface		Touch color screen, RS485/Wifi/CAN							
Warranty		12 years							
Cooling method		Smart cooling							
Topology		Transformer-less							
Altitude		<2000m							
Noise emission (typical)		<50dB							