



ENERGY STORAGE HYBRID

8.0 | 10.0 | 12.0

HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS

HIGH EFFICIENCY

- ★ Two independent MPP-trackers, switchable to parallel mode
- ★ Very high efficiency
- ★ Input for high voltage battery
- ★ Suitable for dynamic power adjustment
- ★ Intelligent energy storage management with forecast based charging

FLEXIBILITY FEATURES

- ★ 3-phase feed-in
- ★ Wide MPP range for flexible string planning and easy repowering
- ★ Max-Power Control - self-learning shade management
- ★ Expandable and combinable with existing PV-systems
- ★ Hybrid-ready charging of the battery with external AC sources
- ★ Emergency UPS power capability

EASY INSTALLATION

- ★ DC and AC connection with plug & play
- ★ Integrated online APP and PC monitoring solution
- ★ No Internet access required for setup



high efficiency



up to 2 roof orientations



quick and easy installation



fanless and silent

EASIER COMMUNICATION

- ★ Multi-information LCD-display
- ★ RCT Power Portal for user-friendly system monitoring
- ★ Multi-function communication connection
- ★ Suitable for big house loads like heating elements, heat pumps and air conditioners

INNOVATIVE DESIGN

- ★ Silent, maintenance free cooling
- ★ Durable aluminum frames
- ★ IP65 protection: Suitable for outdoor installation

ENERGY STORAGE HYBRID

Technical specification	8.0	10.0	12.0
Input (PV)			
Max.power(kW)	12	15	18
Max.DC voltage(V)		1,000	
MPPT voltage range(V)		180~850	
Max.input current of single MPPT(A)		13	
MPPT tracker/strings	2/1	2/1	2/1
AC output			
Rated output power(kVA)	8	10	12
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(V)		400/360~440	
Frequency(Hz)		50/60	
Power factor		0.8lagging-0.8leading	
THDi		<3%	
AC output topology		3W+N+PE	
Battery			
Battery voltage range(V)		125~600	
Max. charging voltage(V)		600	
Full battery voltage(V)	250	300	350
Rated charge/discharge current(A)	40	40	40
Battery type		lithium /Lead-acid	
Communication Interface		CAN/RS485	
EPS output			
Rated power(kVA)	8.8	11	13.2
Rated output voltage(V)		400	
Max. output current(A)	12.7	15.9	19.1
Rated frequency(Hz)		50 /60	
Automatic switching time(ms)		<20	
THDu		<2%	
Overload capacity		110%,30S/120%,10S/150%,0.02S	
General data			
Battery charge /discharge efficiency	96.6%	96.7%	96.8%
DC Max. efficiency	97.9%	98.2%	98.2%
Europe efficienc	97.2%	97.5%	97.5%
MPPT efficiency	99.5%	99.5%	99.5%
Ingress protection		IP65	
Noise emission(dB)		<35	
Operation temperature		-25°C~60°C	
Cooling		Natural	
Relative Humidity		0~95%(non-condensing)	
Altitude		2,000m (>2,000 Derating)	
Dimensions W * D*H (mm)		530*200*600	
Weight(kg)		29	
Isolation transformer		No	
Self-consumption(W)		<3	
Display and communication			
Display		LCD	
Interface:RS485/Wifi/4G/CAN/DRM		Yes/ Opt/ Opt/ Yes/Yes	
Safety standard		IEC/EN62109-1/-2,1EC/EN62477-1	
EMC		IEC/EN 61000-6-1,1EC/EN 61000-6-3	
On-grid	Europe: EN50549-1, Germany: VDE4105/0124, UK: G99, South Africa: NRS097-2-1: 2017		

1. Depending on orientation, inclination and location of installation.

2. Average efficiencies in combination with a RCT Power Battery 11.5 and UmppNenn