

# 3-Phase String Inverters 75 to 110 kW

## RV LT Series

RV 75K-LT / RV 80K-LT  
RV 100K-LT / RV 110K-LT



### Safe and Reliable

- TYPE II Surge Protection for DC&AC
- IP66 rated design for outdoor use
- Fuse free design



### Higher Yields

- 150% PV array oversizing for higher yields
- 16A input current, ideal for bifacial and large area PV modules
- 10 MPPT's for flexible PV array design for higher yields



### User-friendly

- Quick setup and commissioning with Rahvolt Apps
- Support 7\*24H monitoring
- String-level Management

## RV LT Series

Model:	RV 75K-LT	RV 80K-LT	RV 100K-LT	RV 110K-LT
<b>PV Input</b>				
Max. PV Array Power	112500 Wp STC	120000 Wp STC	150000 Wp STC	165000 Wp STC
Max. Input Voltage	1100 V			
Rated Input Voltage	630 V			
MPPT Operating Voltage Range	200V ~ 1000 V			
Start-up Voltage	250 V			
Max. Operating Input Current	32 A			
Max. Short-circuit Current	48 A			
No.of MPP Trackers	8	8	10	10
No.of Strings per MPP Tracker	2			
<b>AC Output</b>				
Rated Output Power	75000 W	80000 W	100000 W	110000 W
Rated Apparent Power	1000 VA	1500 VA	2000 VA	3000 VA
Max. Apparent Power	75000 VA	75000 VA	110000 VA	110000 VA
Rated AC Voltage	220 V / 380 V, 230 V / 400 V 3L+N+PE			
AC Voltage Range	312 V - 528 V			
AC Grid Frequency / Range	50 Hz / 45 Hz to 55 Hz, 60 Hz / 55 Hz to 65 Hz			
Max. Output Current	114.0 A	127.0 A	158.8 A	174.7 A
Adjustable Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)			
Grid Connection	3-Phase			
Max. Total Harmonic Distortion (THDi)	≤ 3 %			
<b>Efficiency</b>				
Max. Efficiency	98.60%			
European Efficiency	98.40%			
<b>Protection</b>				
DC Switch	Yes			
Anti-islanding Protection	Yes			
DC Reverse Polarity Protection	Yes			
AC Short-circuit Protection	Yes			
DC Surge Protection	Compatible with TYPE II Protection Class according to EN/IEC 62109-1			
AC Surge Protection	Compatible with TYPE II Protection Class according to EN/IEC 62109-1			
Residual-current Monitoring Unit	Yes			
Ground Fault Monitoring	Yes			
Grid Monitoring	Yes			
<b>General Data</b>				
Dimensions (W x H x D)	984 x 640 x 330 mm			
Weight	85 kg			
Operating Temperature Range	-25 ~ + 60 °C			
Self-consumption (at night)	<5.5 W			
Topology	Transformerless			
Cooling	Active Cooling			
Ingress Protection	IP65			
Climatic Category	Class 4K4H according to IEC 60721-3-4			
Relative Humidity	0~100%			
Max. Operating Altitude	4,000 m (13,123 ft.) (Derating above 2000 m)			
DC Connection	Plug-in Connector			
AC Connection	Plug-in Connector			
Mounting Type	Wall-mount Bracket			
Display	LED Indicator + APP			
Communication Interface	RS485 / 4G / Wi-Fi (Optional)			
Certificates and Approvals (more available on request)	CE, IEC62109, IEC 61727, IEC62116			