



Model	RHL03S	RHL036S	RHL05S
PV Input Data			
Recommended Max. PV Power [Wp]	6600	6600	8000
Max. PV Input Voltage [V]		580	
MPPT Voltage Range [V]		100 ~ 550	
Start-up Voltage [V]		110	
No. of MPP Trackers		2	
No. of Input Strings per Tracker		1	
Max. Input Current per MPPT [A]		27 (13.5 / 13.5)	
Max. Short-circuit Current per MPPT [A]		34 (17 / 17)	
DC Switch		Integrated	
AC Output Data (On-grid)			
Rated AC Power [W]	3000	3680	5000
Max. Output Power [VA]	3000	3680	5000
Max. AC Current [A]	13	16	21.7
Rated AC Voltage / Range [V]		220 / 230; 180 ~ 270	
Grid Frequency / Range [Hz]		50 / 60; ±5	
Adjustable Power Factor [cosφ]		0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)		< 3%	
Battery Data			
Battery Type		Lithium / Lead-acid	
Recommended Battery Voltage [V]		48	
Battery Voltage Range [V]		40 ~ 60	
Max. Charging / Discharging Power [W]		3000	
Max. Charging / Discharging Current [A]		60	
Communication Interface		CAN	
EPS Output Data (With Battery)			
EPS Rated Power [W]		3000	
EPS Rated Voltage [V]		220 / 230	
EPS Rated Frequency [Hz]		50 / 60	
EPS Rated Current [A]		13	
Output THDi (@Rated Output)		< 3%	
Automatic Switch Time [s]		< 5	
PeakPower, Duration [VA,s]		4500, 10	
Efficiency			
Max. Efficiency	97.60%	97.60%	97.60%
Euro Efficiency	97.00%	97.00%	97.00%
Battery Charge / Discharge Efficiency	94.00%	94.00%	94.00%
General Data			
Size (Width * Height * Depth) [mm]		528 x 526 x 193	
Weight [kg]		29.5	
User Interface		LCD	
Communication		RS485 or Wifi or 4G (optional)	
Ambient Temperature Range [°C]		-25 ~ +60	
Relative Humidity		0 ~ 100%	
Operating Altitude [m]		≤ 4000	
Standby Self Consumption [W]		< 1	
Topology		Transformerless	
Cooling		Natural	
Enclosure		IP65	
Noise [dB]		< 35	
Warranty [years]		5 / 7 / 10	
Certifications & Standards			
Grid Regulation		G98, G99, NRS-097, MEA, PEA, AS 4777, EN 50438, CEI - 021, EN 50549, IEC 61727, IEC 62116, IEC 60068, IEC 61683, C10 / 11	
Safety Regulation		IEC 62109-1, IEC 62109-2, IEC 62040	
EMC		EN 61000-6-2, EN 61000-6-3, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29	
Protection			
	DC Insulation Monitoring	AC Overvoltage Protection	Anti-island Protection
	Residual Current Monitoring	AC Overcurrent Protection	Over-heat Protection
	Input Reverse Polarity Protection	AC Short-circuit Protection	DC / AC Surge Protection