



● Hybrid Storage Inverter

● River-Hybrío series

● RH3048D/RH4048D/RH5048D

Features

● **Excellent Output capability**

10% over power support for 10s

Capable of being grid-interactive or grid-independent

Hybrid input with PV and battery for safety output

● **UPS Function Available**

UPS function with 10 ms automatic switchover

Enhanced dynamic MPPT algorithm to make sure accurate and real-time MPP tracking

● **Intelligent Monitoring, User Friendly**

Firmware can be upgraded via USB flash disc

Easy connector for GPRS or WIF module. Remotely monitoring system anytime and anywhere through web portal or mobile APP



Model	RH3048D	RH4048D	RH5048D
Input (DC)			
Max. DC Input Power [W]	4600w/2300w	6000w/3000w	7500w/3750w
Max. DC Voltage [V]	550	550V	550V
Operating MPPT Voltage Range [V]	100-500	100-500	100-500
Operating MPPT Voltage Range [V]	210-440	230-440	255-440
Star Up Voltage/Initial Feeding Voltage [V]	70/150	70/150	70/150
Turn off Voltage [V]	60	60	60
Max. DC Current per Tracker [A]		12	
Number of independent MPP inputs/strings per		2/1	
Max. Power per Tracker [W]	2000	2500	3000
Output (AC)			
Rated power[W]	3000	4000	5000
Max. AC apparent power[AV]	3000	4000	5000
Nominal AC voltage range[V]	187 - 270	187 - 270	187 - 270
Nominal Frequency [Hz]*	50 / 60	50 / 60	50 / 60
Frequency Range [Hz]	45 - 55 / 55 - 65	45 - 55 / 55 - 65	45 - 55 / 55 - 65
Max. AC Current [A]	17.5	22	25
Power Factor	0.9i - 0.9c	0.9i - 0.9c	0.9i - 0.9c
Total Harmonic Distortion (THD)	<3%	<3%	<3%
Efficiency			
Max.Efficiency	97.60%	97.60%	97.60%
Euro Efficiency	97.00%	97.00%	97.00%
Max.Battery Charging/Battery Discharging	94.3%/94%	94.3%/94%	94.3%/94%
MPPT Efficiency	99.90%	99.90%	99.90%
Loss at Standby / Loss at Night	<5W / <0W	<5W / <0W	<5W / <0W
Battery			
BatteryType	Li-ion, Lead-acid		
Nominal Battery Voltage[V]	48		
Battery voltage range[V]	38-60		
Max. Charge/Discharge Power[W]	3000/3000	4000/4000	4200/5000
Max. Charge/Discharge Current[A]	60/60	80/80	80/100
BMS Communication Port	CAN2.0 / RS485		
Protective devices			
Array ground insulation resistance monitoring	Yes		
Ground fault monitoring/grid monitoring	Yes		
Array polarity reverse protection	Yes		
All-pole sensitive residual current monitoring	Yes		
Anti-island protection	yes		
Surge protection	Yes		
Protection Class	I		
Overvoltage Category	PV II / Mains III		
General Data			
Dimensions(W/H/D)[mm]	576*536*162	576*536*162	576*536*162
Weight of inverter[Kg]	17	17.5	18
Battery/PV/AC connection	Fastening screw		
Mounting	Wall bracket		
Features			
Display	LCD, CapSense key		
Interface: Speedwire/Webconnect	RS485/Digital IO		
Operating temperature range	-25 ~ +60, derating when temperature>45°C		
Noise emission[dB]	<35		
Topology	High frequency isolation		
Cooling method	Forced Air		
Degree of protection inverter/battery section	IP65		
Max. Altitude (above sea level) [m]	<2000		
Maximum permissible value for relative	0 - 95%,non condensing		
Certificates and approvals	AS 4777.2, C10/11, CE, CEI 0-21, EN 50549, G99, DIN EN 62109, IEC 62109, RD1699, VDE-AR-N 4105, VDE0126-1-1, IEC 61727, IEC 62116R-N 4105, VDE0126-1-1, IEC 61727, IEC 62116		