

# SOLTARO HYBRID

Hybrid RHI-3kW-5kW



## Class Leading Features

- Intellectualised energy management systems
- Smart battery SOC detection
- Battery protection, maximum battery life
- Precise MPPT algorithm, maximising efficiency
- 10 year warranty upgrade, 5 year standard
- Multiple adaptor 48V lithium battery
- Compact, light, IP65 design
- Can, RS485, WiFi/GPRS (optional) interface with monitoring
- Numerous protection functions

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**Manufactured in China**



**SOLTARO**  
POWERING THE FUTURE WITH SOLAR

# Datasheet

Model	Soltaro RHI 3K-48ES	Soltaro RHI 3.6K-48ES	Soltaro RHI 5K-48ES
Energy source	PV		
<b>Input Side (DC)</b>			
Max. Input voltage (V)	600Vdc		
Start up input voltage (V)	120V		
MPPT voltage range (V)	150-500V		
MPPT number	2		
The max rating DC input current	10A/10A		10A/18A
<b>Output Side (AC)</b>			
Rated output power (kW)	3	3.6	5
Rated grid voltage (V)	202/220/240Vac		
Grid voltage range (V)	180~270Vac		
Operating phase	L-N-PE		
Max. output current (A)	13	15.7	21.7
Power factor	>0.99		
Total harmonic distortion (THDi)	Total THDi<4%		
Rated grid frequency	50/60Hz		
AC grid frequency range	47-52Hz or 57-62Hz		
Grid frequency range (Hz)	50/60		
<b>Efficiency</b>			
Max. efficiency	97.0%		
EU efficiency	96.5%		
Max efficiency of battery inverting	95.0%		
Max efficiency of battery charging	95.0%		
<b>Protection</b>			
DC reverse-polarity protection	Yes		
Grid monitoring	Yes		
Protection class/overvoltage category	I/IV		
Ground fault monitoring	Yes		
DC AFCI	Optional		
<b>Battery</b>			
Battery type	Li-ion		
Battery voltage range	42-58V		
Battery capacity	100-500Ah		
Max charging power	3000W		
Max charging current	62.5A		
Short Circuit protection	Electronic with max. charging, switch-off < 1 second		
Number of cycles	>4000		
Batteries temperature compensation	Included		
Batteries voltage measurement	Integrated		
<b>General Data</b>			
Dimensions (mm)	333x565x250 (battery not included)		
Weight (kg)	20	21	25
Topology	Transformerless		
Operating ambient temp. range	-25°C ~ 60°C		
Ingress protection	IP65		
Noise emission (typical)	<30 dBA		
Cooling concept	Natural convection		
Max. operating altitude	4000m		
Designed lifetime	>20 years		
Certifications	UL 1741, UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (class A&B), CAN/CSA C22.2 107.1-1		
AC & DC connections	Quick connection		
Interface	CAN, RS485, WiFi/GPRS (optional)		
Warranty	5-10 years		