



For use at home

RCFUso/

- Light & compact
- Highest efficiency (97.7%)
- Natural convection cooling
- Outdoor (IP66)
- Maintenance free

In the market for single-phase<sup>1</sup>, transformerless string inverters, we offer the REFU*sol* inverter with nominal power of 3.6 to 4.6 kW. These feed into the low voltage network and their **high IP66 protection class** makes them particularly suitable for roof systems from 3.6 kW upwards, installed either inside or out. Thanks to fast and precise MPP tracking, efficiency levels of up to 97.7% are possible.

Our data management system REFU*log* enables you to display and evaluate operating and performance data for each PV system. With the **integrated RS485 interface**, our REFU*pmu* power management unit, and an Internet connection you can monitor your system via the inverter at any time, anywhere in the world, on your computer or on a smartphone using the REFU*log app*.

TECHNICAL DATA	REFU <i>sol</i> 003K	REFU <i>sol</i> 004K	REFU <i>sol</i> 005K	
Art. no.	801R003	801R004	801R005	
DC DATA				
Max. PV power, kW	4.3	4.9	5.4	
MPPT range, V	350 710	351 710	348 710	
Max. DC voltage, V	550 710	880	540 710	
Max. DC current, A	11.5	13.0	14.5	
MPP tracker	11.5 13.0 14.5			
Number of DC connections	2			
AC DATA				
Rated AC power, kVA	3.68	4.12	4.6	
Max. AC active power, kW	3.68	4.12	4.6	
AC grid connection	3 AC 400 V + N, 47,5–52,5 Hz (feed-in: 1 phase)			
Rated power factor	1			
Adjustable displacement factor	0.9i1 0.9c			
Max. AC current, A	16	17.9	20	
Distortion factor THD, %	< 3	< 3	< 3	
Max. efficiency, %	97.7			
European efficiency, %	97.4			
Feed-in starting power, W	7			
Nighttime power consumption, W	< 2			
COOLING, AMBIENT CONDITIONS, EMC				
Cooling	Natural convection			
Ambient temperature, °C	-20 +60			
Elevation	Up to 2000 m above sea level			
Internal overvoltage protection, type	3 (acc. to EN 61643-11)			
Protection class	I (acc. to IEC 62103)			
Overvoltage category	DC: II, AC: III (acc. To IEC 60664-1)			
Environment classification	4K4H acc. to DIN IEC 721-3-4			
Certification	Current certificates can be found at http://europe.refusol.com/certifications.pdf			
SZS or grid protection	Acc. to VDE 0126-1-1			
Interfaces	RS485 & RS232			

## **GENERAL DATA**

Type of protection	IP66 as per EN 60529		
Dimensions Width/Height/Depth, mm	320/720/250		
Weight, kg	27	27	28

Subject to modification. Technical specifications are subject to change without notice. REFUsol GmbH | Uracher Straße 91 | 72555 Metzingen | Germany | Tel. +49 7123 969-0 | Fax +49 7123 969-165 | info@refusol.com