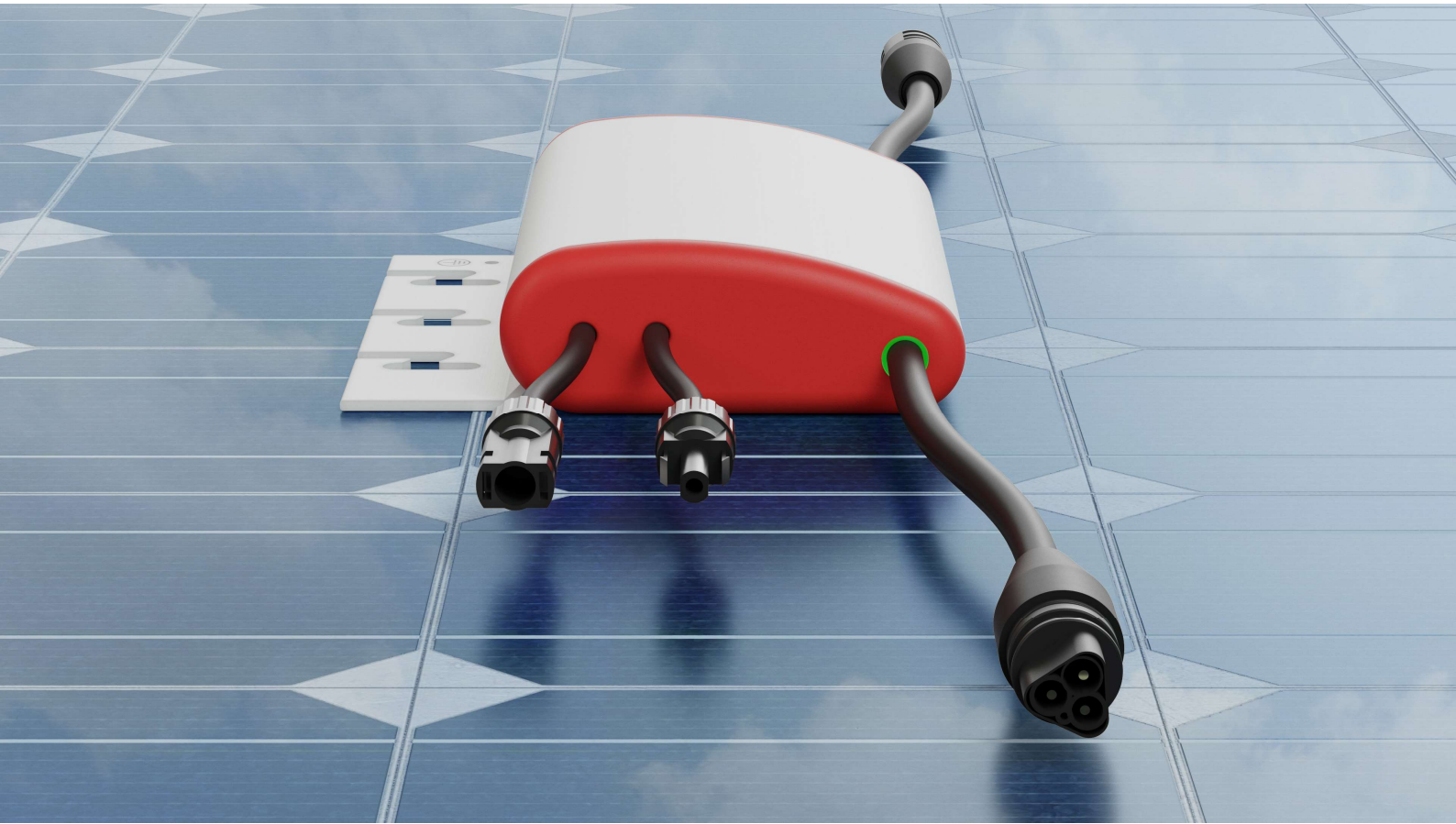


# UBIK S400 OptiVerter® DC DATASHEET



The **UBIK S400 OPTIVERTER® DC** is a smart, pure plug & play device, supporting decentralized renewable energy production and offering the most affordable energy conversion approach for residential and small to medium commercial PV installations thanks to the usage of the **OptiVerter® Technology**. This allows to maximize energy harvest and reach lower levelized cost of electricity compared to MLPE (Module Level Power Electronics) solutions available on the market today.

UNPRECEDENTED PERFORMANCE	ALL-IN-ONE, PLUG & PLAY DEVICE	INTEGRATED MANAGEMENT TOOLS
<p>Our <b>shade-tolerant MPPT</b> (Maximum Power Point Tracking) with extended input voltage range (8 to 60 VDC) keeps the S400 OptiVerter® DC working where others simply can't, resulting in <b>up to 30% better energy harvest</b> than any traditional microinverter.</p>	<p>Easy and safe to install and use, the S400 OptiVerter® DC <b>works with all 60-cell and 72-cell PV modules with the nominal STC power of up to 400W</b>. Built-in WiFi communication gateway and wiring plus higher efficiency result in <b>lower Levelized Cost Of Electricity (LCOE)</b> for system owners.</p>	<p>PV module-level monitoring and analytics, including estimation of PV panel life and <b>advanced diagnostics</b> via <b>FlowEM®</b>, our smart energy management platform. Featuring <b>OTA software updates</b>, your S400 OPTIVERTER® DC will constantly receive the latest improvements.</p>

# UBIK S400 OptiVerter® TECHNICAL SPECIFICATIONS

INPUT DATA (DC)		
Model number	S400DC-3	S400DC-7
Maximum PV module STC power	400 W	
Compatibility	All 60- and 72-cell PV modules	
Maximum input DC voltage	60 VDC	
MPPT voltage range	8...60 VDC	16...60 VDC
Min / Max PV panel OC start voltage	10/60 VDC	20/60 VDC
Max PV panel short circuit current	15 A	
OUTPUT DATA (DC)		
Maximum continuous output power	350 W	
Maximum output current	1.4 A	0.7 A
Nominal voltage	350 VDC*	700 VDC*
Droop control voltage range	320 – 380 VDC*	640 – 760 VDC*
EFFICIENCY		
CEC weighted efficiency	95 %	94 %
Static MPPT efficiency (weighted, reference EN50530)	99.5 %	
MECHANICAL DATA		
Ambient temperature range	-45...+65 °C	
Dimensions (WxHxD)	215 x 174 x 47 mm	
Weight	2.2 kg**	
Cooling	Natural convection	
Enclosure environmental rating	Outdoor / IP67**	
PV connector type	15cm 6mm <sup>2</sup> wire with MC4 connector	
Output connector type	Trunk cable with Wieland RST 20i4 connector	4x1.5mm <sup>2</sup> cable without connector***
Grid connection topology	Daisy chain connection	Backbone connection
FEATURES		
Communication	Wi-Fi (IEEE 802.11 b/g/n)	
DC Safety and system integration	SafetyWire, Current/OS®, DC grid anti-islanding****	
Integrated ground	High-frequency galvanic isolation. The need for additional Grounding Electrode Conductor (GEC) or ground depends on the local normative.	
Monitoring	FlowEM® Cloud Smart Energy Management Platform, local MQTT client, Modbus TCP/IP	
Compliance	LVD, RED, EMC, RoHS	

\* output voltage and droop window are adjustable during manufacturing or via the OTA updates upon request

\*\* bare PCB without waterproof compound with reduced weight available for internal installations

\*\*\* alternative cabling is available upon request

\*\*\*\* enabled upon request

Changes to products and services, including those resulting from country-specific requirements, and deviations from technical data are subject to change without notice. UBIK Solutions assumes no liability for mistakes or printing errors. For the latest information, please visit [www.ubiksolutions.eu](http://www.ubiksolutions.eu).

UBIK S400 OptiVerter® DC and FlowEM® Smart Energy Management Platform are registered trademarks of UBIK Solutions B.V. SafetyWire® and Current/OS® are registered trademarks of Direct Current B.V.