

Scarab: Technical Specification



Technical Specification

Main Features			
Electrical	Power	7.36 kW max	22.1 kW max
	Voltage	230VAC, 50/60 Hz, 1-Phase	400VAC, 50/60 Hz, 3-Phase
	Current	1 x 32A max	3 x 32A max
	Power Level Control	6-32A (software control)	
	Socket Type	IEC 62196 Type 2	
	Standby power consumption	< 5.3 VA, 3.2 W	
	Protection	- RCD Type A + DC sense (6mA) - Neutral voltage (70 V_{rms}) - Overcurrent (Overcurrent protection trip when IL > 1.2 x I_{max}) - Temperature (limiting 72°C -78°C, fault at 79°C) - Undervoltage (software fault at 90% V_{nom} with configurable offset, hardware shutdown at 115V_{rms} ±10 V_{rms}) - Overvoltage (software fault at 110% V_{nom} with configurable offset, hardware shutdown at 300V_{rms} ±10 V_{rms}) - Reverse phase or phase-to-phase: the hardware can handle mains misconnections	
	Certification	CE (IEC 61851-1, IEC 61851-2, IEC 60950-1, IEC 60950-22)	
Mechanical	Material	PC Plastic (up to 100% recycled feedstock) V-2 UL94 Flame retardant	
	Lock mechanism	Servo-type actuator lock	
	Dimension (WxDxH)	200 x 129 x 350 mm (socketed) ; 200 x 108 x 350 mm (tethered)	
	Colour	Glossy/Matt Black	
	Weight, approx:	3.2 kg (tethered model, without cable) 3.55 kg (socketed model)	3.3 kg (tethered model, without cable) 3.65 kg (socketed model)
	Type	Modular front covers 2 sections top/bottom	
	Mounting	Included metal mounting bracket	

Main Features		
Connectivity	Access Type	Ethernet: wired LAN via RJ45 port (10/100Mbps) GSM: 2G (3G, LTE, CAT M1, CAT NB-1 on request) WLAN: 2.4 GHz (802.11 b/g/n/e/i) Bluetooth: for configuration of wireless access point
	Protocol	OCPP 1.6 JSON
	Wireless capabilities	Access Point: integrated web server for settings and diagnostics (web client) Station: for backend connectivity Note: Supports simultaneous Access point and Station functionality
Authorisation/ Status Indicator	Reader	Integrated NFC reader, MIFARE compatible
	App	Connected Kerb App Android & IOS
	LED	RGB horizontal light; 9 states
Measurement	Metering	MID Meter (Class Index A), corresponds to accuracy class 2%

Optional Features	
Built in Cable	Tethered cable Type 2 plug
Cable	5 m tethered cable
User Interface	3.5" LCD Screen

Remote Diagnostic and Management Features	
Error detection and auto restore	
Remote Reset	
Remote Recalibration	
Remote Firmware Update	

Compliance
General: IEC 61851-1:2017 Part 1, BS 7671:2018
EMC: IEC 61851-21-2:2018 Part 21-2 (Emissions Class B, Immunity – Residential Environments); Class B for EN 55032:2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 61000-4-2: 2009, EN 61000-4-4: 2004, EN 61000-4-5:2014; EN 61000-4-8: 2009, EN 61000-4-11: 2004
Radio equipment: Radio Equipment Directive 2014/53/EU, EN 62311:2008; GSM module - EN 60950-1:2006 & A11:2009 & A1:2010 & A12:2011 & A2:2013, ETSI EN 301 489-1 V2.2.0, EN 301 511 V12.5.1 (2017-03); WiFi module - EN 301 489-1 V2.2.0 (2017-03), EN 301 489-17 V3.2.0 (2017-03), EN 60950-1: 2006 & A11: 2009 & A1: 2010 & A12: 2011 & A2: 2013, EN 300 328 V2.1.1 (2016-11)

Working and Storage Environment	
IP Rating	IP54
IK Rating	IK10 (base model)
Temperature	Operational: -40°C - +70°C Transportation: -40°C - +85°C Storage: -40°C - +85°C
Cooling	Natural air cooling
Storage Temperature	-40°C to 70°C
Humidity	5% -90% Relative humidity, non-condensing
Altitude	-50 to +2000 m
*IK Rating with LCD	Same or lower rating IK08



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