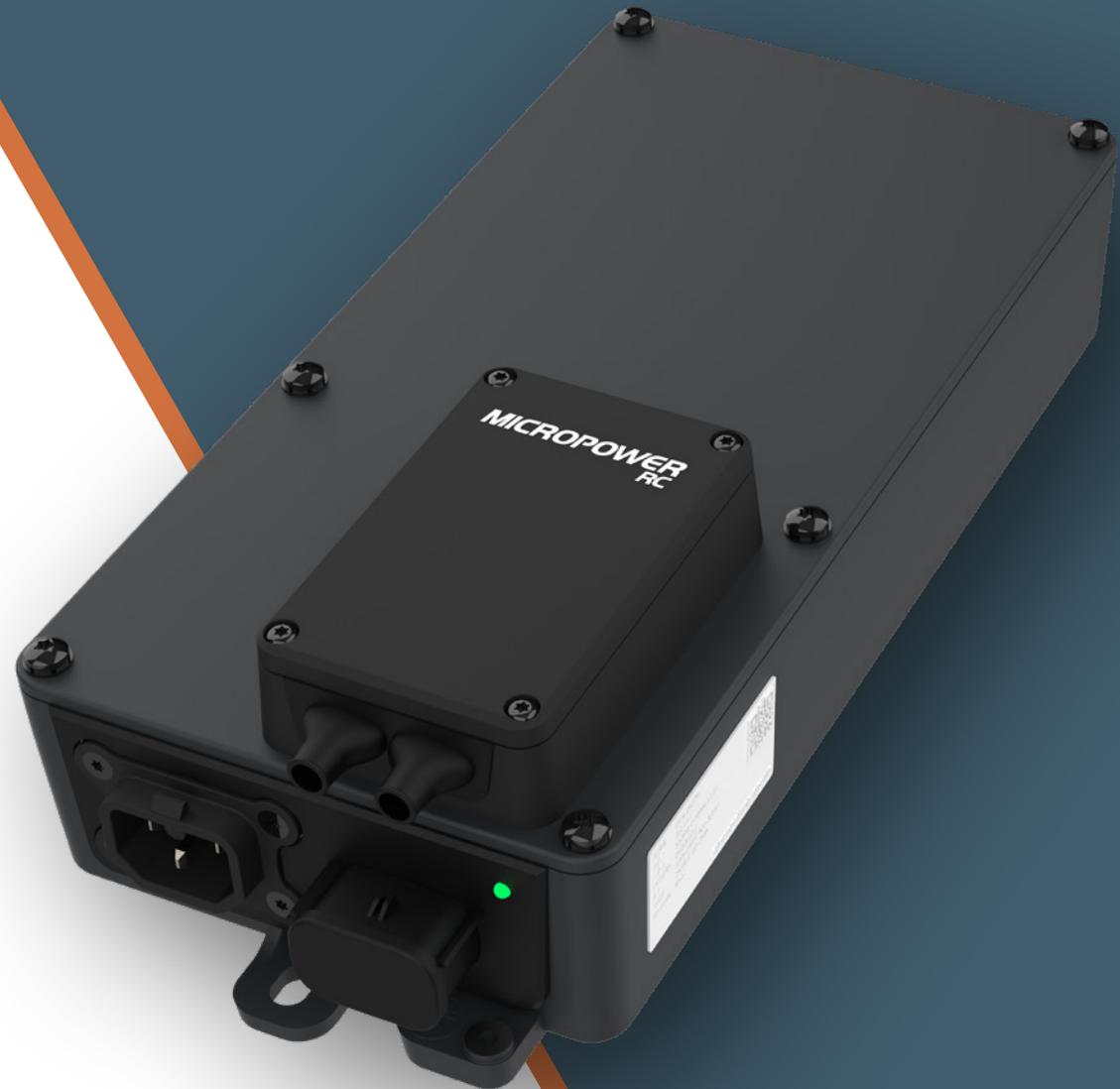


MICROPOWER GROUP[™]
POWERFUL SOLUTIONS PARTNER

ONBOARD CHARGER

RC7-10

COMPACT WITH 96% EFFICIENCY



CONTENT

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YOUR POWERFUL SOLUTIONS PARTNER

Micropower Group develops and manufactures energy-efficient Lithium-Ion batteries, chargers, and power converters. With 40+ years of experience, we deliver high-quality systems and long-term value to leading OEMs through technical expertise, innovation, and reliability.

Intelligent Energy Solutions for a Sustainable Future

ABOUT MICROPOWER GROUP

Driving Electrification of Industry

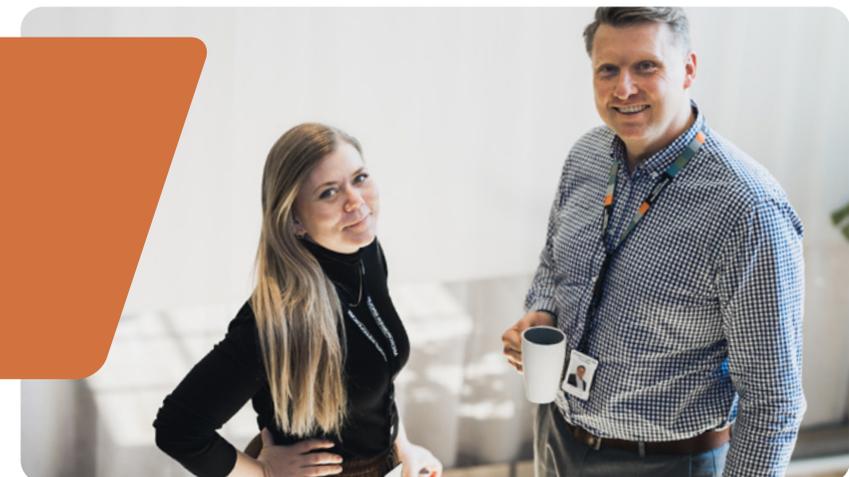
Micropower enables industrial electrification through energy solutions tailored to real industrial applications. With deep system integration know-how and advanced battery expertise, we deliver efficient, high-performing technologies that support OEMs on their electrification journey.

In-house Development & Manufacturing

Our Nordic-based R&D and manufacturing ensure full process control and scalability. Our testing facilities support solution validation under real conditions. From prototype to volume, our industrialized setup enables efficient, high-quality production at scale.

Partnership Excellence

As a strategic partner, Micropower supports customers across the full electrification process. We ensure compliance, prioritize safety, and provide expert training. Our reliable delivery, short lead times, and dedicated support foster long-term collaboration.



COMPLETE ENERGY OFFERING

Micropower delivers energy systems combining Lithium-Ion batteries, chargers, power converters, and software into one integrated solution.

- Built on scalable and high-efficiency technology, tailored to suit your specific application
- Available as compact battery modules or high-voltage systems, with onboard or stationary chargers and robust power converters
- Enhanced with smart software for reliable, efficient performance that drives your electrification journey

STATIONARY BATTERY CHARGER

SOFTWARE SOLUTIONS

POWER CONVERTER

LITHIUM-ION BATTERY

ONBOARD BATTERY CHARGER

MICROPOWER RC ONBOARD BATTERY CHARGER

The Micropower RC is a compact, high-efficiency 1-phase onboard charger for industrial Lead-Acid and Lithium-Ion batteries. With wide 100–240 VAC input, IP67 protection, and digital control, it delivers robust performance in demanding environments. Available in models up to 1040 W.

Performance & Efficiency

Up to 96% efficiency minimizes power loss and reduces CO₂ emissions by up to 50%, supporting sustainable operations and lower energy costs.

Smart Integration

Features CAN bus communication, easy cable connection with patented AC connector, and interface via Molex 12-pin – enabling fast, fail-safe installation.

Built for Industry Use

Fan-less, low-weight, and IP67-rated design ensures durability in harsh conditions, with consistent charging and optimized Lithium-Ion performance. Micropower RC is certified to demanding EMC standards.



Up to
96%
Efficiency

100–240
VAC

1040 W
Output Power

50%
CO₂ Reduction
Compared with traditional charger
with 90–92% efficiency

TECHNICAL SPECIFICATIONS

Technical specifications	
Phase	1-phase
Mains Voltage Range	100VAC-240VAC (50/60Hz)
Output Voltage	12-48 VDC, up to 800 W (120 VAC) / 1040 W (More than 180 VAC)
Battery Types	Lead-Acid and Lithium-Ion with CAN-bus communication
Supported Battery Technologies	Lead-Acid (Wet, AGM, Gel) / Lithium-Ion (CAN-BMS controlled)
Charging Curves	7x Lead-Acid charging profiles, 1x BMS-controlled Lithium-Ion charging
Product features	
CAN Bus	Isolated CAN-H, CAN-L, CAN-GND, CANopen, J1939
Pilot / Detect Signal	AC-present and charge enable/disable signal for BMS
Interlock Signal (Immobilizer)	AC-present indicator – potential-free relay
External LED Output	Control for 2 external LEDs
External Battery Temperature Sensor	NTC
HMI (User Interface)	1 multi-color LED
Cabinet Dimensions	122 × 277,5 × 72,5 mm
Weight	2.2 kg
Auxiliary output	12V supply (Max 1W)
Parallel connections	Up to 3 units in parallel

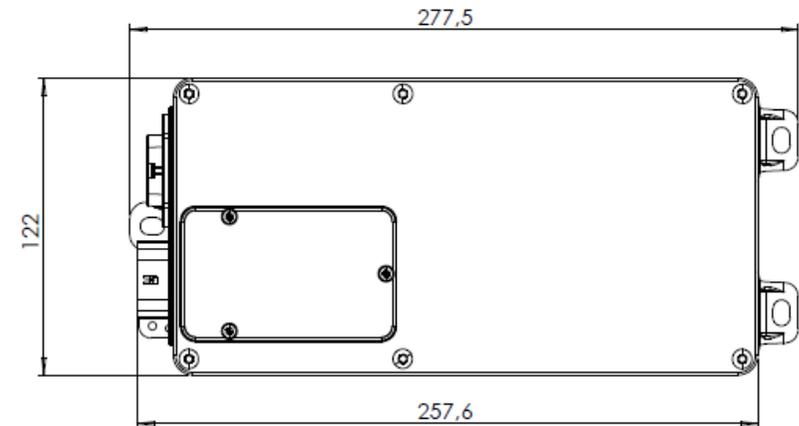
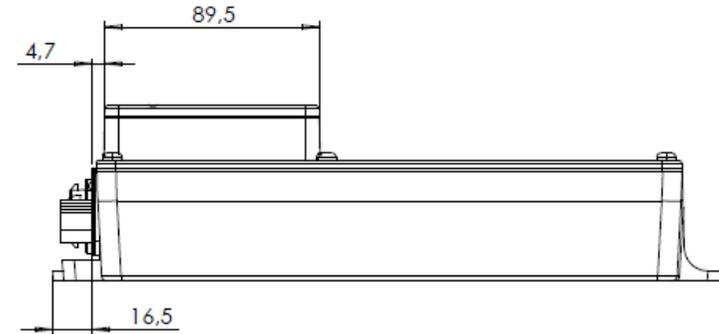
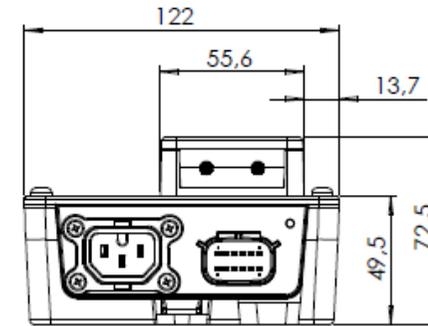
CERTIFICATIONS



Safety	UL1564, IEC/EN/UL 60335
Emissions & Immunity	FCC 47 Part 15 / ICES-001 Class B, UN ECE R10 Rev. 06, EN IEC 61000-6-2, EN IEC 61000-6-3

TECHNICAL DOCUMENTATION PORTAL

[Micropower Support Center](#)



TECHNICAL DATA

MICROPOWER RC MODEL RANGE

Product	Micropower RC7	Micropower RC7	Micropower RC7	Micropower RC7	Micropower RC9	Micropower RC10	Micropower RC10
Part Number	RD1321	RD2261	RD3201	RD4161	RD2271	RD3191	RD4221
Model	2AIF911	2AIF901	2AIF921	2AIF931	2AIF910	2AIF920	2AIF930

Main data

Output voltage (V)	12	24	36	48	24	36	48
Output current (A)	50	25	16,5	12,5	25-30	18-23	14-18
Number of phases	1	1	1	1	1	1	1
Rated voltage (V)	100-240 (50/60Hz)						
Current at nominal voltage 120/230Vac (A)	6.5 / 3.8	6 / 3.3	6.5 / 3.8	6.5 / 3.8	6 / 3.3	6.5 / 3.8	6.5 / 3.8
Typical supply cable connector	IEC60320, type C15						
Operational ambient temperature	-40°C - 70°C (-40°F - 158°F)						

Battery connection

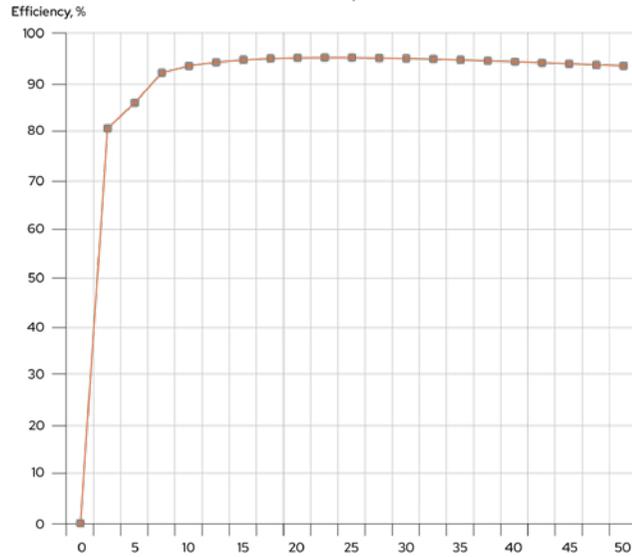
Output cable terminals (in unit)	M6, M8						
Auxiliary connector	Molex MX120G						
Output voltage (V)	0-17.5	0-35	0-52.5	0-70	0-35	0-52.5	0-70

Electric data

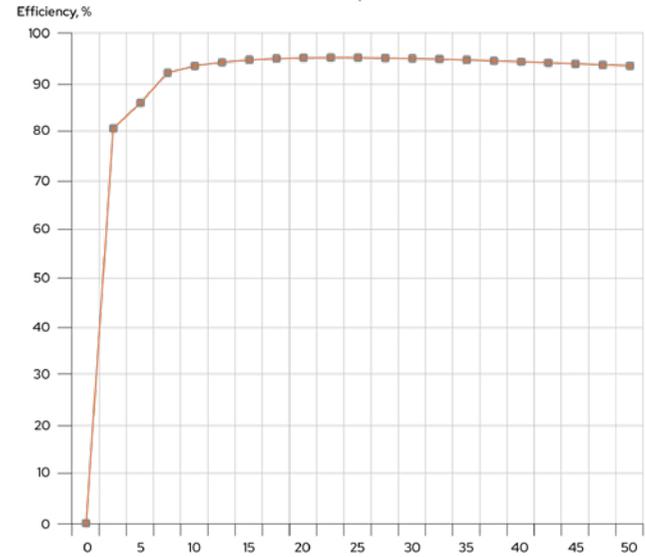
Standby AC power consumption (W)	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Power consumption 120/230Vac (W)	720/720	720/720	720/720	720/720	720/900	800/1000	800/1040
Power factor	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98
Inrush current (A)	20A	20A	20A	20A	20A	20A	20A
Efficiency (%)	>95	>95	>95	>95	>96	>96	>96

EFFICIENCY DATA

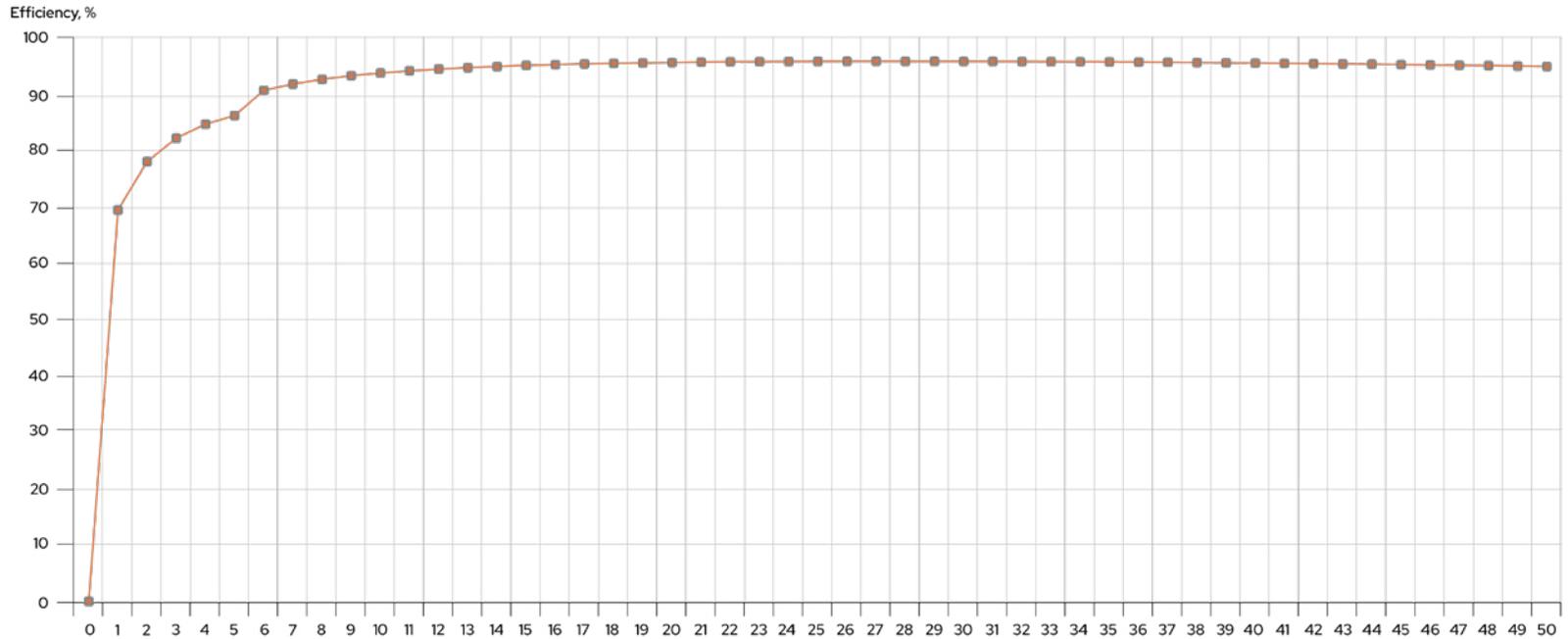
RC7
120VAC
12V
50A



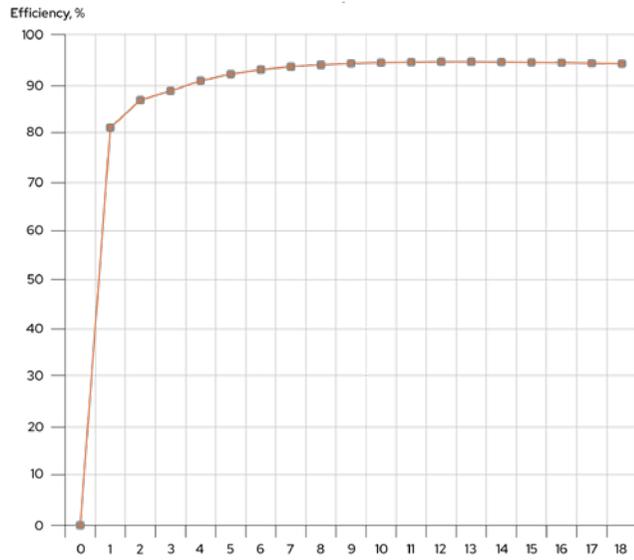
RC7
120VAC
12V
50A



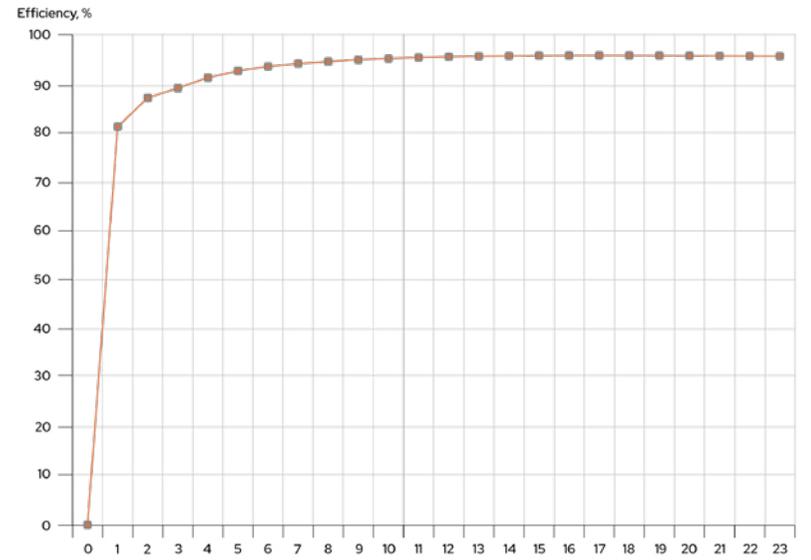
RC7
230VAC
12V
50A



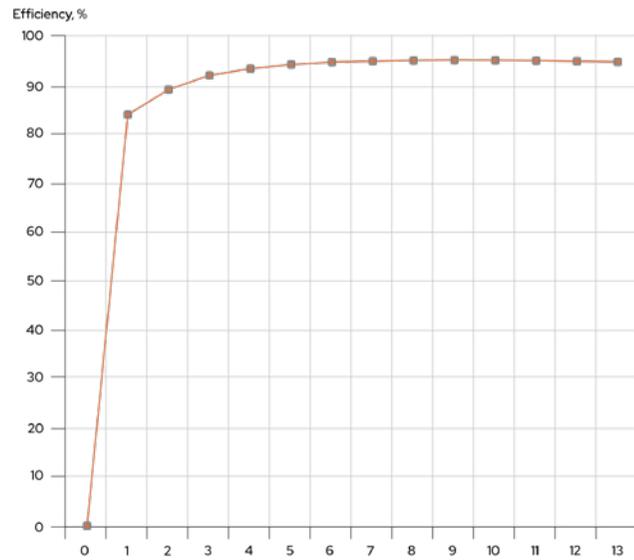
RC10
120VAC
36V
18-23A



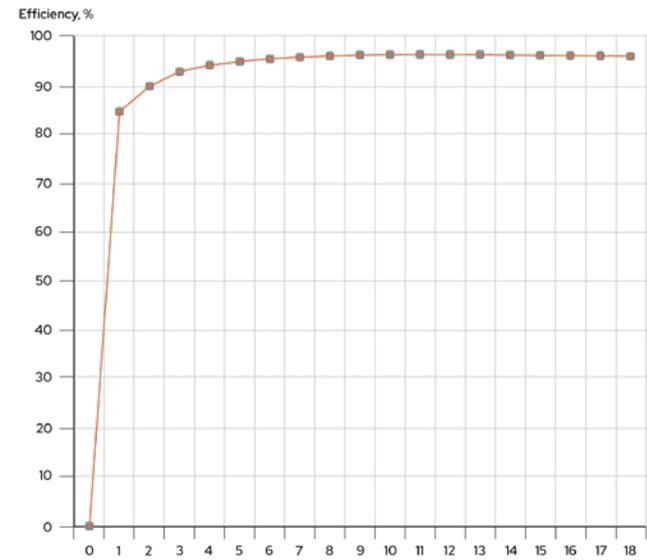
RC10
230VAC
36V
18-23A



RC10
120VAC
48V
18A



RC10
230VAC
48V
18A

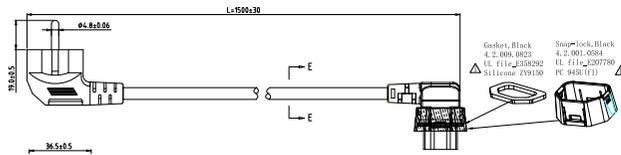


COMPATIBLE CABLES

AC-cables EU

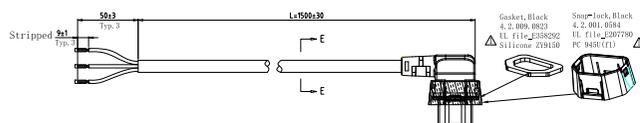
Part n. 2901061

AC Cable EU Plug, angled IP67 C15



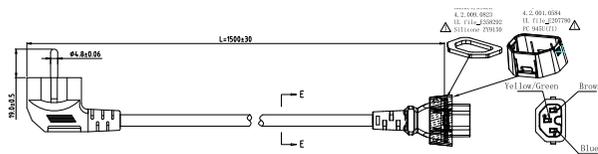
Part n. 2901063

AC Cable Open end EU, angled IP67 C15



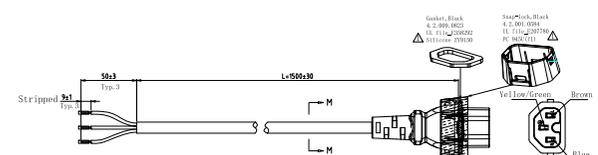
Part n. 2901062

AC Cable EU Plug, straight IP67 C15



Part n. 2901064

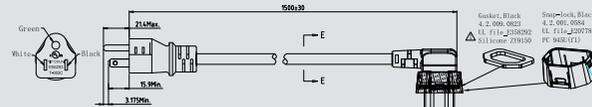
AC Cable Open end EU, straight IP67 C15



AC-cables US

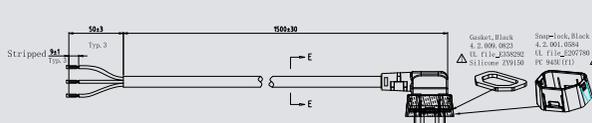
Part n. 2901067

AC Cable UL Plug, angled IP67 C15



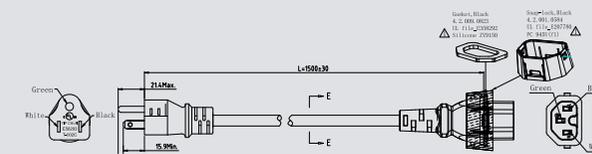
Part n. 2901065

AC Cable Open end UL, angled IP67 C15



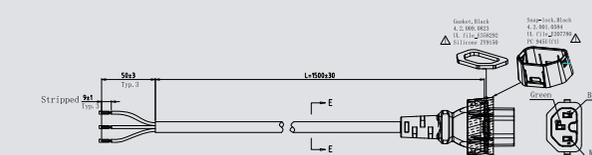
Part n. 2901068

AC Cable UL Plug, straight IP67 C15



Part n. 2901066

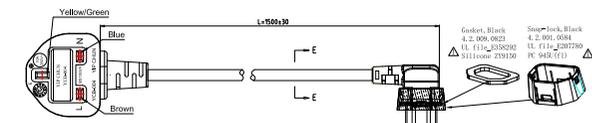
AC Cable Open end UL, straight IP67 C15



AC-cables UK, Swiss

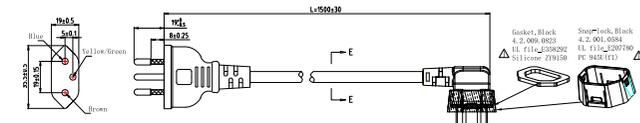
Part n. 2901071

AC Cable UK Plug, angled IP67 C15



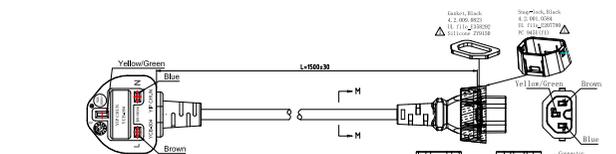
Part n. 2901069

AC Cable Swiss Plug, angled IP67 C15



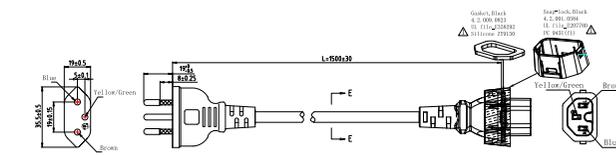
Part n. 2901072

AC Cable UK Plug, straight IP67 C15



Part n. 2901070

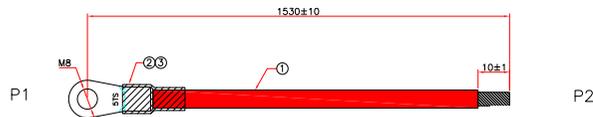
AC Cable Swiss Plug, straight IP67 C15



DC Cables, CE

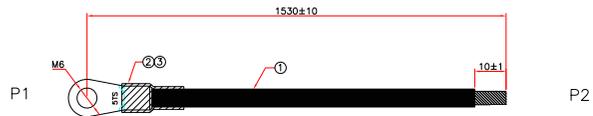
Part n. 2991042

DC cable CE 1.5 m, red



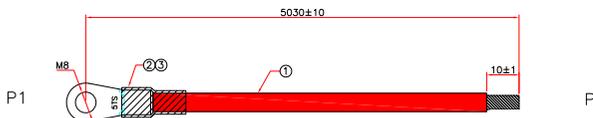
Part n. 2991043

DC cable CE 1.5 m, black



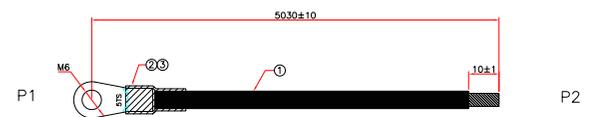
Part n. 2991044

DC cable CE 5 m, red



Part n. 2991045

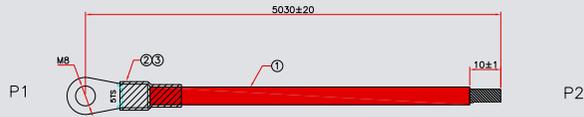
DC cable CE 5 m, black



DC Cables, UL

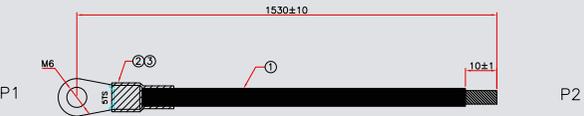
Part n. 2991048

DC cable UL 1.5 m, red



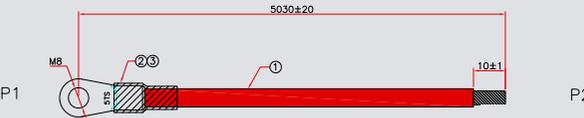
Part n. 2991049

DC cable UL 1.5 m, black



Part n. 2991046

DC cable UL 5 m, red



Part n. 2991047

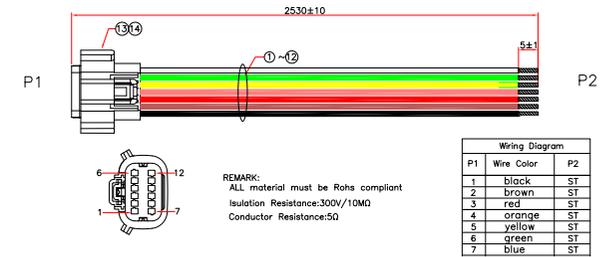
DC cable UL 5 m, black



Communication Cable

Part n. 0521404

Communication cable 12-pole w connector



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Learn more!

