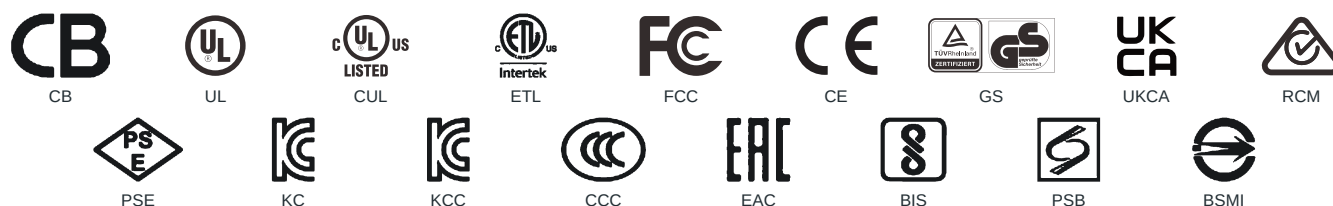


AC-DC Power Adapters

MKA series | Constant-voltage models from 3.0 to 24.0V DC | Up to 15W
xx can be US, EU, UK or AU, representing different AC plug types.

MKA-HxxD Horizontal DC cord     	MKA-VxxD Vertical DC cord     	MKA-CxxD Side entry DC cord     	MKA-DEXD Interchangeable DC cord     
MKA-HxxU Horizontal USB-A     	MKA-HxxC Horizontal USB-C     	MKA-VxxU Vertical USB-A     	MKA-DEXU Interchangeable USB-A     

GLOBAL CERTIFICATION OPTIONS



Certification availability depends on the model and market. Confirm coverage for the complete order code.

REPRESENTATIVE CONFIGURATIONS (Representative models and ratings; custom voltage/current available)

Model reference	Output voltage	Output current	Rated power
MKA-0502000HEUU	5.0V DC	2.000A	10.0W
MKA-0502000HEUD	5.0V DC	2.000A	10.0W
MKA-0503000HEUU	5.0V DC	3.000A	15.0W
MKA-2400625HEUD	24.0V DC	0.625A	15.0W

Each model has a fixed output. $V_{out} \times I_{out} \leq 15W$; individual nameplate ratings apply.

Electrical data: page 2. Cable options: page 5.

Electrical and Operating Data

Family ratings, operating conditions and selected energy results

INPUT AND OUTPUT

Parameter	Value	Conditions / scope
Rated input voltage	100-240V AC	Nameplate rating
Rated input frequency	50/60 Hz	AC mains
Rated input current	0.4A Max.	Family nameplate rating
Output voltage	3.0-24.0V DC	Constant voltage or Constant current,
Output current	0.001-3.000A	Model dependent; $V_{out} \times I_{out} \leq 15W$
Output power	15.0W max.	Individual models may have lower ratings

ENVIRONMENT AND CONSTRUCTION

Parameter	Value	Conditions / scope
Equipment class	Class II	Wall mount type
Maximum ambient temperature	40 °C	Maximum rated ambient temperature
Operating altitude	Up to 2,000 m	Evaluated operating altitude
Pollution degree / overvoltage category	2 / II	Classification
IP protection class	IP20	Enclosure protection rating

ENERGY PERFORMANCE | 5V / 2A ONLY (Representative model efficiency)

Reported measurement	115V AC / 60 Hz	230V AC / 50 Hz
Average active efficiency - DOE / CEC	>78.82%	>79.18%
Average active efficiency - ERP	>78.81%	>78.98%
Efficiency at 10% load - ERP	>78.20%	>75.62%
No-load input power	≤0.10W	≤0.10W

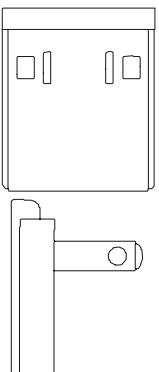
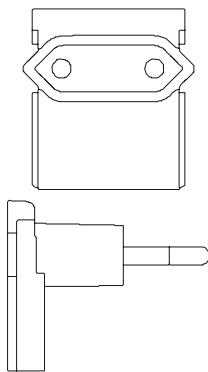
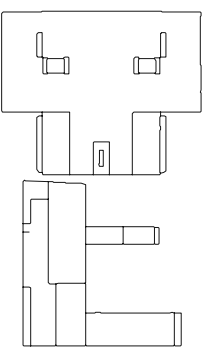
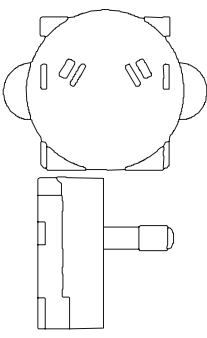
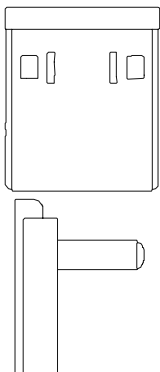
DOE Level VI / CEC / ERP: complied for the evaluated 5.0V / 2.0A / 10.0W configurations.

Reported measurements are configuration-specific; they are not guaranteed production limits and do not establish performance for other output ratings. Safety, EMC and material compliance: page 6.

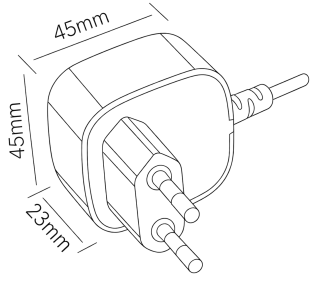
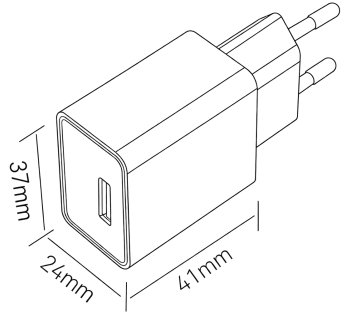
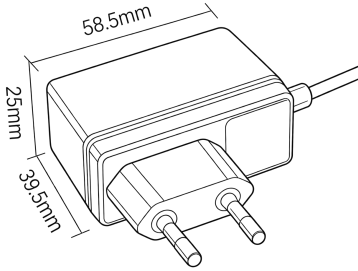
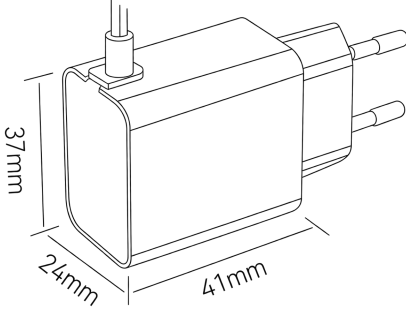
Plug Options and Dimensions

Regional plug options and enclosure reference drawings

Worldwide Use

Region	North America US	Europe EU	United Kingdom UK	Australia AU	China CN
Blade outline					

ENCLOSURE OUTLINE AND DIMENSIONS (Reference outline dimensions for the EU plug version. For other versions, please email info@merryking.com.)

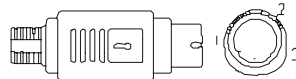
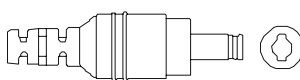
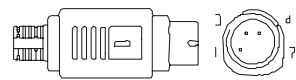
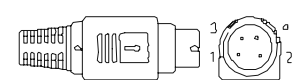
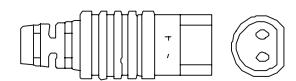
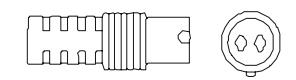
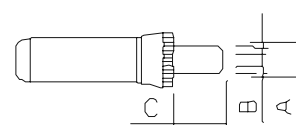
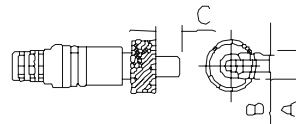
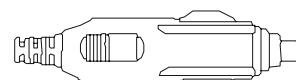
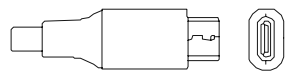
MKA-HEUD  <p>Dimensions (mm): 45 x 45 x 23</p>	MKA-VEUU  <p>Dimensions (mm): 41 x 37 x 24</p>
MKA-CEUD  <p>Dimensions (mm): 58.5 x 39.5 x 25</p>	MKA-VEUD  <p>Dimensions (mm): 41 x 37 x 24</p>

All dimensions are in millimeters. Reference drawings are not to scale.

Output Cable Plug Options

Connector styles, dimensions and outline drawings (Representative specifications; other requirements can be customized.)

Dimension values in mm unless stated otherwise. Connector choice is configuration-dependent.

Plug type	Specification	Outline / drawing	Plug type	Specification	Outline / drawing		
Stripped & tinned	NC		Power mini-DIN (male)	3Pin Molding			
Barrel type	5.5 x 2.1			4Pin Molding			
	5.5 x 2.5			3Pin Assembly / lock			
	4.75 x 1.7				4Pin Assembly / lock		
	4.0 x 1.7	Barrel type Right angle		Interchangeable connector	2Pin		
	3.5 x 1.35		2Pin				
	2.35 x 0.7		3Pin				
	6.3 x 3.0		Switchcraft locking type		A:5.5 B:2.5 C:0.375 in (9.52 mm)		
6.5 x 1.4	A:5.5 B:2.5 C:0.475 in (12.06 mm)						
DIN (male)	3Pin	DC plug with screw		A:5.5 B:2.1 C:0.375 in (9.52 mm)			
	4Pin			A:5.5 B:2.1 C:0.475 in (12.06 mm)			
	5Pin (180 deg)	Cigarette lighter	-				
	5Pin (240 deg)				USB Type-C	-	
	6Pin						
	7Pin						
	8Pin						

Cable and Configuration Options

Output cord construction and final configuration requirements

OUTPUT CORD

Option	Description
Cord style	Round or flat cord, depending on configuration
Catalog length options	1.2 m, 1.5 m and 2.0 m; other lengths by agreement
Evaluated 5V / 2A configuration	Output cord length: max. 150 cm. Conductor size: min. 24 AWG.

Confirm wire gauge, cord resistance and length tolerance for the final assembly. Energy results apply to the evaluated configuration; other cable options may change performance.

COMPLETE THE ORDER WITH

Cord length and wire gauge; connector dimensions, insertion length and polarity; regional plug and applicable approvals.

Confirm the complete configuration. Every model must satisfy the 15W family ceiling and its individual nameplate rating.

Safety, EMC and Compliance

Applicable standards, energy performance and material compliance

SAFETY AND EMC STANDARDS

Area	Standard / scope
Safety	IEC/EN 62368-1 IEC/EN 61558-1 & -2-16 series, as applicable to the selected model
EMC emissions	EN 55032:2015+A11:2020+A1:2020 Mains conducted and radiated emissions
EMC immunity	EN 55035:2017+A11:2020 Applicable immunity requirements
Harmonics / flicker	EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021 Recorded as not applicable for the evaluated configurations

The applicable safety standard, part, edition and regional certificate must match the ordered product configuration.

ENERGY AND MATERIAL COMPLIANCE

Area	Scope / result
DOE / CEC	DOE Level VI: pass; CEC: complied. Evaluated 5V / 2A configurations only.
ERP	(EU) 2019/1782: complied. Evaluated 5V / 2A configurations only.
RoHS	2011/65/EU and (EU) 2015/863. Tested materials of submitted samples: pass.

Approval and compliance scope must be matched to the final model, AC plug, output rating and production configuration.

Shenzhen Merryking Electronics Co., Ltd.

Product information: www.merryking.com, E-mail: info@merryking.com

Rev 0.7 | 21 Oct 2026 | Regional code and model code sections removed.