AC-DC Power Adapters

MKE2 series | Fixed and interchangeable AC plugs | Constant-voltage DC output | Up to 30W
xx can be US, EU, UK or AU, representing different AC plug types.

MKE2-HxxD

Horizontal | DC cord

US EU UK AU

MKE2-VxxD

Vertical | DC cord

US EU UK AU

MKE2-DEXD

Interchangeable | DC cord

US EU UK AU

GLOBAL CERTIFICATION OPTIONS

UL CE FCC GS KC KCC UKCA cUL ETL RCM

C-Tick PSE CCC EAC CB BIS PSB BSMI

Catalogue certification options; coverage varies by model, rating and market. See page 6 for documented scope.

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

Output	Current	Power	Interface
5.0V DC	4.200A	21.0W	DC cord
12.0V DC	2.500A	30.0W	DC cord
15.0V DC	2.000A	30.0W	DC cord
24.0V DC	1.250A	30.0W	DC cord
48.0V DC	0.625A	30.0W	DC cord

Each model has a fixed output. Voltage, current and power limits apply simultaneously; see page 2.

Electrical and Operating Data

Input ratings, output limits and evaluated operating conditions

INPUT AND OUTPUT

Parameter	Specification
Input voltage / frequency	100-240V AC, 50/60Hz
Rated input current	0.8A Max.
Output range	3.0-48.0V DC; up to 4.2A; maximum 30W, subject to the limits below
Output type	Fixed, constant-voltage DC output through an output cord

OUTPUT RATING LIMITS

Output voltage	Maximum current	Maximum power
3.0-6.0V DC	4.200A	21.0W
6.1-9.0V DC	3.300A	27.0W
9.1-12.0V DC	2.500A	30.0W
12.1-24.0V DC	2.000A	30.0W
24.1-48.0V DC	2.000A	30.0W

Limits follow CB report S01A23040005S001. Current must also satisfy Pout / Vout. The individual nameplate rating and applicable regional approval govern the final configuration.

OPERATING CONDITIONS AND CONSTRUCTION

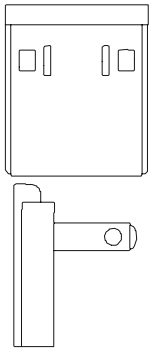
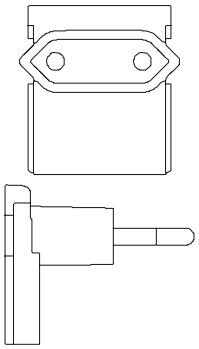
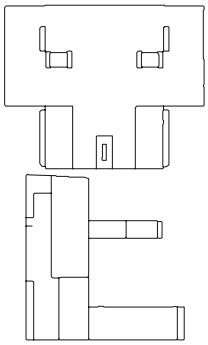
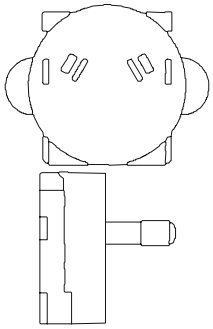
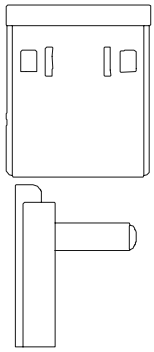
Parameter	Evaluated scope
Construction / application	Class II; direct plug-in; plastic enclosure; indoor use Power supply for audio/video and information technology equipment
Maximum ambient temperature	+40 deg C in the CB-evaluated configuration
Operating altitude	2,000m or less; applicable regional approval conditions govern

Voltage, current and power limits apply together. For example, a 24V output is limited to 1.25A by the 30W maximum, even though its voltage band permits up to 2.00A.

Plug Options and Dimensions

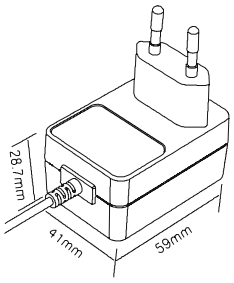
Regional plug options and enclosure reference drawings

Worldwide Use

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

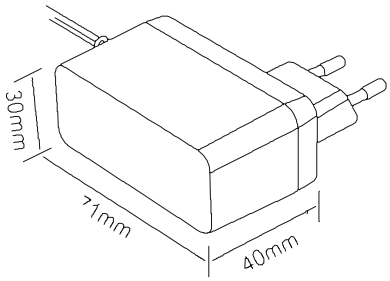
ENCLOSURE OUTLINE AND DIMENSIONS (Representative outline dimensions; for drawings of other versions, please email info@merryking.com.)

MKE2-H



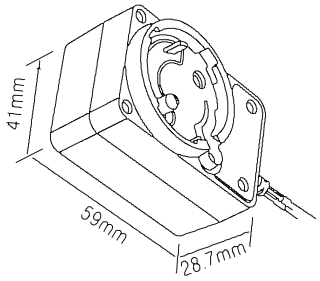
Dimensions (mm): 59 x 41 x 28.7

MKE2-V



Dimensions (mm): 71 x 40 x 30

MKE2-D



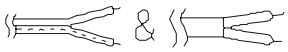
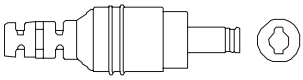
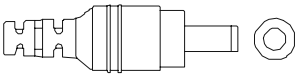
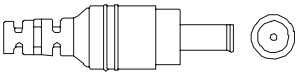
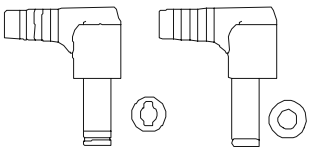
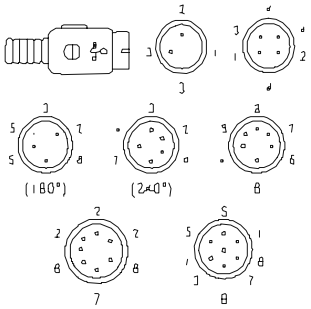
Dimensions (mm): 59 x 41 x 28.7

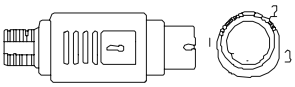
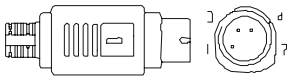
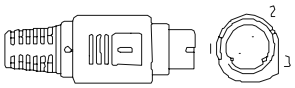
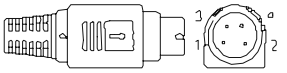
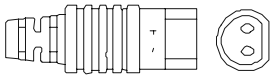
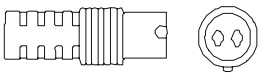
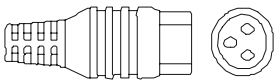
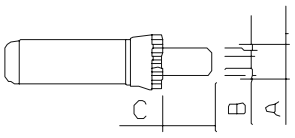
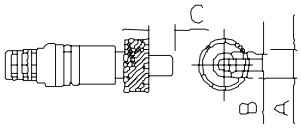
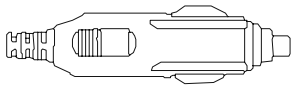
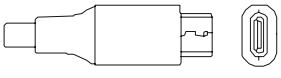
Reference drawings are not to scale. Dimensions follow the official variant drawings; units: mm.

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
Stripped & tinned	NC	
Barrel type	5.5 x 2.1	
	5.5 x 2.5	
	4.75 x 1.7	
	4.0 x 1.7	
	3.5 x 1.35	
	2.35 x 0.7	
	6.3 x 3.0	
Barrel type	6.5 x 1.4	
Barrel type Right angle	5.5 x 2.1	
	5.5 x 2.5	
	4.75 x 1.7	
	4.0 x 1.7	
	3.5 x 1.35	
	2.35 x 0.7	
	6.3 x 3.0	
	6.5 x 1.4	
DIN (male)	3Pin	
	4Pin	
	5Pin (180 deg)	
	5Pin (240 deg)	
	6Pin	
	7Pin	
	8Pin	

Plug type	Specification	Outline / drawing
Power mini-DIN (male)	3Pin Molding	
	4Pin Molding	
	3Pin Assembly / lock	
	4Pin Assembly / lock	
Interchangeable connector	2Pin	
	2Pin	
	3Pin	
Switchcraft locking type	A:5.5 B:2.5 C:0.375 in (9.52 mm)	
	A:5.5 B:2.5 C:0.475 in (12.06 mm)	
	A:5.5 B:2.1 C:0.375 in (9.52 mm)	
	A:5.5 B:2.1 C:0.475 in (12.06 mm)	
DC plug with screw	A:5.5 B:2.1 / 2.5 C:7.5	
	A:5.5 B:2.1 / 2.5 C:10.1	
Cigarette lighter	-	
USB Type-C	-	

Cable and Configuration Options

Output cord construction and final configuration requirements

OUTPUT CORD

Option	Description
DC cord style	Round or flat cord, depending on configuration
DC cord length options	1.2 m, 1.5 m and 2.0 m; other lengths by agreement
Conductor and connector selection	Specify wire gauge and connector current rating for the selected output Confirm cable length, voltage drop and temperature rise

Confirm conductor gauge, cord resistance, length tolerance and connector current rating for the final assembly. Cable construction and length affect voltage drop and operating temperature.

COMPLETE THE CONFIGURATION WITH

Selection	Details to confirm
Electrical output	Output voltage, current and power; individual nameplate rating
Enclosure and AC connection	MKE2-H / MKE2-V / MKE2-D Fixed or interchangeable plug; destination market
Output interface	DC output cord; connector style from the preceding page
Connector and cord	Connector dimensions, insertion length, polarity, cable length and gauge
Approvals	Applicable certificate and approved configuration for the destination market

Every configuration must satisfy both the 30W family ceiling and its voltage-band limits. Confirm the complete product configuration against the applicable approval and final production sample.

Safety, EMC and Compliance

Standards and evidence for the MKE2 family and evaluated configurations

SAFETY AND EMC

Area	Standard / documented scope
CB safety	IEC 62368-1:2018; EN IEC 62368-1:2020/A11:2020 CB certificate DK-146602-UL; report S01A23040005S001
European safety / GS	EN IEC 61558-1:2019; EN 61558-2-16:2009+A1; EN IEC 62368-1:2020+A11 GS certificate S 50603716 0001; report CN23CI4M 001
North American safety	UL 62368-1, 3rd edition; CSA C22.2 No. 62368-1:19 UL-US-2344310-1; UL-CA-2338368-1 Report reference E361658-20231027
EMC emissions / immunity	EN 55032:2015+A11:2020+A1:2020; EN 55035:2017+A11:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021. Certificate 23EP02003E02.
US emissions	FCC Part 15 Subpart B; ANSI C63.4:2014 Attestation 23AE040005F004; report E04A23040005F00401

REGIONAL APPROVALS

Market / mark	Reference / scope
United Kingdom / UKCA	Safety certificate 24SP11241L01; BS EN IEC 62368-1:2020+A11:2020 EMC certificate 24EP11241E02
Australia / New Zealand / RCM	AS/NZS 61558.2.16:2022; AS/NZS 61558.1:2018 including A1 Certificate GMA-516981-EA; proof of compliance POC23120604
Korea / KC and KCC	KC certificate HU10898-23011B KCC registration R-R-M6E-MKE-30W
China / CCC	Certificate 2023010907592200, valid until 30 November 2028 GB 4943.1-2022; GB/T 9254.1-2021; GB 17625.1-2022

MATERIAL COMPLIANCE

Evaluation	Documented scope / reference
RoHS	Directive 2011/65/EU and amendment (EU) 2015/863 Certificate and test report SFT24082660381E
California Proposition 65	Submitted samples: lead, cadmium and phthalate tests passed Report SFT24091461346E; scope is limited to the tested materials

Page 1 symbols show catalogue options. Confirm certificate coverage for the exact model, rating, plug and construction.