

AC-DC Power Adapters

MKE series | Fixed and interchangeable AC plugs | Constant-voltage DC output | Up to 36W
xx can be US, EU, UK or AU, representing different AC plug types.

MKE-DExD
Interchangeable | DC cord







MKE-CxxD
Fixed plug | DC cord







MKE-HxxD
Horizontal | DC cord







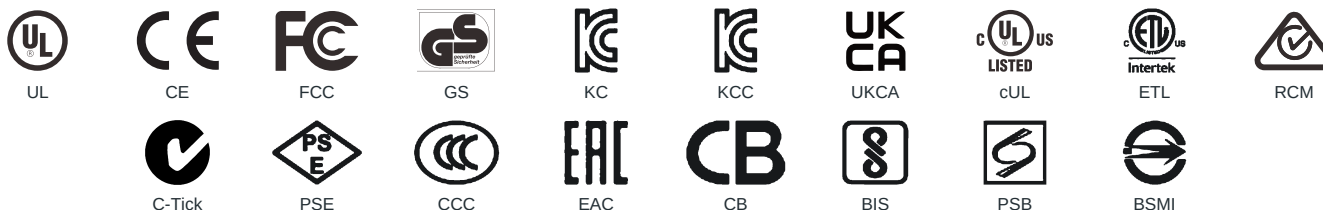
MKE-VxxD
Vertical | DC cord







GLOBAL CERTIFICATION OPTIONS



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	5.000A	25.0W	DC cord
12.0V DC	3.000A	36.0W	DC cord
15.0V DC	2.400A	36.0W	DC cord
24.0V DC	1.500A	36.0W	DC cord
48.0V DC	0.750A	36.0W	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 5.0A; maximum 36W, 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
3.0-8.0V DC	5.000A	30.0W
8.1-10.0V DC	3.500A	31.5W
10.1-12.0V DC	3.000A	36.0W
12.1-24.0V DC	2.400A	36.0W
24.1-48.0V DC	1.400A	36.0W

Limits follow CB report S01A25030476P001. Current must also satisfy P_{out} / V_{out} . The individual nameplate rating and applicable regional approval govern the final configuration.

OPERATING CONDITIONS AND CONSTRUCTION

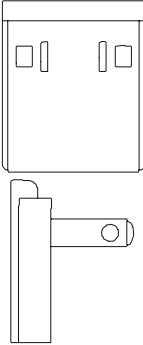
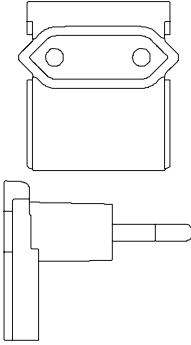
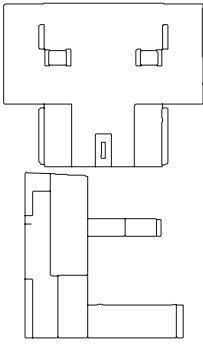
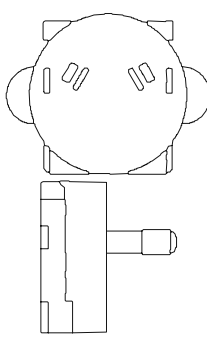
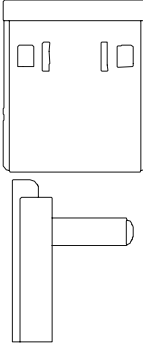
Parameter	Evaluated scope
Construction / application	Class II; direct plug-in; plastic enclosure; indoor use Power supply for audio/video and information technology equipment
Maximum ambient temperature	+30 deg C in the CB-evaluated configuration
Operating altitude	2,000m or less; applicable regional approval conditions govern

The 12V / 3A energy results on page 6 apply to the evaluated sample and cable assembly. Other output ratings and constructions require their corresponding performance data.

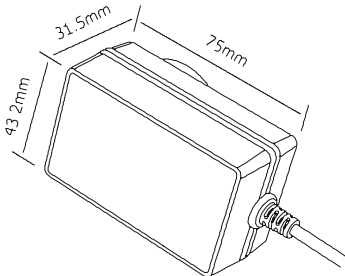
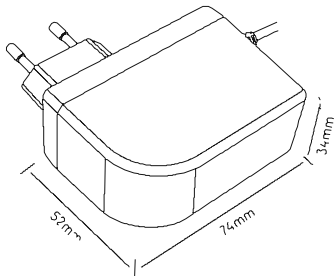
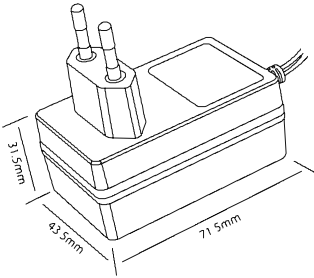
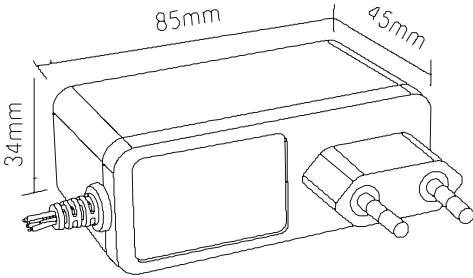
Plug Options and Dimensions

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.)

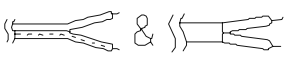
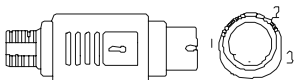
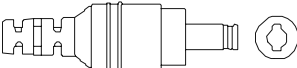
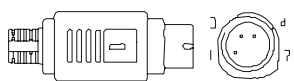
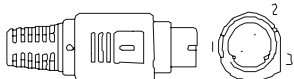
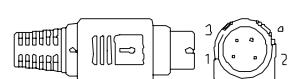
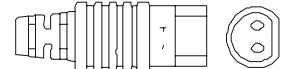
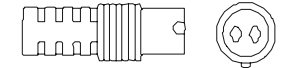
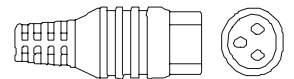
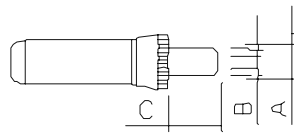
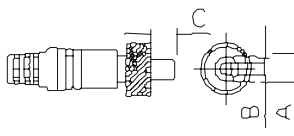
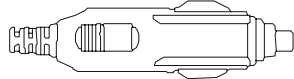
MKE-DEXD  <p>Dimensions (mm): 75 x 43.2 x 31.5</p>	MKE-CxxD  <p>Dimensions (mm): 74 x 52 x 34</p>
MKE-HxxD  <p>Dimensions (mm): 71.5 x 43.5 x 31.5</p>	MKE-VxxD  <p>Dimensions (mm): 85 x 45 x 34</p>

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	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
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
Evaluated 12V / 3A assembly	Output cord length: maximum 110 cm; conductor size: minimum 20 AWG As recorded in ERP report Q01A22040332E00502

Confirm conductor gauge, cord resistance, length tolerance and connector current rating for the final assembly. The measured energy results apply to the evaluated cable; other lengths may change performance.

COMPLETE THE CONFIGURATION WITH

Selection	Details to confirm
Electrical output	Output voltage, current and power; individual nameplate rating
Enclosure and AC connection	MKE-DEXD / MKE-CxxD / MKE-HxxD / MKE-VxxD 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 36W 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 MKE 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-165233-UL; report S01A25030476P001
European safety / LVD	EN IEC 61558-1:2019; EN 61558-2-16:2009/A1:2013; EN 62368-1:2014/A11:2017 Attestation N8A 081024 0019 Rev. 00
North American safety	UL 62368-1; CAN/CSA C22.2 No. 62368-1-14 UL reference E361658-A6012-UL
EMC emissions / immunity	EN 55014-1:2017; EN 55014-2:2015; EN IEC 61000-3-2:2019; EN 61000-3-3:2013/A1:2019 EMC certificate 19AE12111E010
US emissions	FCC Part 15 Subpart B; ANSI C63.4-2014 FCC verification 4789623488-2-S

REGIONAL APPROVALS

Market / mark	Reference / scope
United Kingdom / UKCA	Safety attestation 21AS110634L368A001 EMC attestation 21AE110634B002
Australia / New Zealand / RCM	AS/NZS 62368.1:2022; certificate reference GMA-526091-EA Proof of RCM compliance POC25122308
Japan / PSE	DENAN Appendix 12; J62368-1(2020); J55032(H29) Reference statement TKY300322-AC 22 03 027; rating-specific statements apply
Korea / KC and KCC	KC certificate HU10898-20005A KCC registration R-R-M6E-MKE-36W
China / CCC	Certificate 2022010907473615, valid until 31 August 2031 GB 4943.1-2022; GB/T 9254.1-2021; GB 17625.1-2022

EVALUATED 12V / 3A ENERGY PERFORMANCE (Representative model efficiency)

Evaluation	Sample result / reference
DOE Level VI	MKE-1203000H at 115V / 60Hz: passed. Average efficiency 87.86%; no-load power 0.040W. Report Q01A22040332E00202.
ERP	MKE-1203000HEUD at 230V / 50Hz: average efficiency 87.88%; 10% load efficiency 84.53%; no-load power 0.090W. Report Q01A22040332E00502; evaluated output cord: 110 cm / min. 20 AWG.

Page 1 symbols show catalogue options. Confirm coverage for the exact model, rating, plug and construction. Energy results describe the evaluated samples only.