

UNO-UPS/24DC/24DC/60W - Uninterruptible power supply



2905907

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Uninterruptible energy supply with integrated energy storage, lead AGM, VRLA technology, 24 V DC, 0.8 Ah.

Product description

UPS modules with integrated energy storage are particularly space saving: UPS module and energy storage are combined in one housing. It's just a case of connecting a power supply upstream.

Your advantages

- Compact and narrow

Commercial data

Item number	2905907
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM27
Product key	CMUUV3
Catalog page	Page 349 (C-4-2019)
GTIN	4055626007380
Weight per piece (including packing)	1,182 g
Weight per piece (excluding packing)	1,182 g
Customs tariff number	85371091
Country of origin	DE

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Technical data

Input data

DC operation

Input voltage	24 V DC
Input voltage range	22.5 V DC ... 29.5 V DC
Voltage type of supply voltage	DC
Buffer period	45 min. (0.5 A) 20 min. (1 A) 8 min. (2 A) 5 min. (2.5□A)
Current consumption	2.8 A (max.) < 60 mA < 300 mA
Input fuse	5 A (electronic)

Output data

Efficiency	> 95 % (for charged batteries) > 92 % (Battery operation)
Nominal output voltage	24 V DC
Nominal output current (I_N)	2.5 A
Bridging time	300 s
Output power	60 W
Power dissipation	3 W (Mains operation) 6 W (Battery operation) Battery operation
Connection in series	No

Mains operation

Nominal output voltage	24 V DC
Output voltage range	$U_{Out} = U_{In} - 0.5 \text{ V DC}$
Nominal output current (I_N)	2.5 A (Permanent)

Battery operation

Nominal output voltage	24 V DC
Output voltage range	20 V DC ... 27.3 V DC
Nominal output current (I_N)	2.5 A

Signal: Alarm

Output description	Transistor (24 V DC/15 mA)
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Signal: Battery mode

Output description	Transistor (24 V DC/15 mA)
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Energy storage

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Charging current	200 mA
Nominal capacity	2x 0.8 Ah
Charging time	approx. 5 h
Battery module service life	3 Years ... 5 Years (20 °C)
Latest startup date (battery only)	3 Months (0 °C ... 20 °C)
	1 Months (30 °C ... 40 °C)
Latest startup (battery only) - range	3 Months ... 1 Months (20 °C ... 30 °C)
Battery technology	Lead rechargeable battery module
Accumulator type	YUASA NP0.8-12
	YUCEL Y0.8-12
	YUVOLT 0.8-12
Battery presence check (cyclic)	60 s
Battery fuse	T 5 A 32 V
IQ technology	no

Connection data

Input

Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	7 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Output

Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	7 mm
Screw thread	M3
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Signal

Connection method	Screw connection
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Signaling

Types of signaling	LED
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Signal output

Signalization designation	Power In OK
Status display	LED
Note on status display	Static to

Signal output: Switching output

Signalization designation	Alarm
Status display	LED
Note on status display	Static to

Signal output

Status display	LED
Note on status display	flashing

Signal output: Switching output

Signalization designation	Battery mode
Status display	LED
Note on status display	flashing

Signal output

Signalization designation	Service
Status display	LED
Note on status display	flashing

Product properties

Product type	DC UPS with integrated energy storage
Product family	UNO UPS – UPS with integrated energy storage
IQ technology	no
MTBF (IEC 61709, SN 29500)	> 1900000 h (40 °C)

Insulation characteristics

Protection class	III
Degree of pollution	2

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Life expectancy (electrolytic capacitors)

Time	170312 h
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Dimensions

Width	110 mm
Height	90 mm
Depth	84 mm

Installation dimensions

Installation distance right/left	0 mm / 0 mm ($\leq 70\text{ }^{\circ}\text{C}$)
Installation distance top/bottom	30 mm / 30 mm ($\leq 70\text{ }^{\circ}\text{C}$)

Mounting

Mounting type	DIN rail: 35 mm
Assembly instructions	alignable: 0 mm horizontally, 30 mm vertically
Mounting position	horizontal DIN rail NS 35, EN 60715

Material specifications

Housing material	Plastic
Type of housing	Plastic
Foot latch material	POM (Polyoxymethylene)
Housing material	PC+ABS

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-15 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 60 °C
Max. permissible relative humidity (operation)	$\leq 95\%$ (at 25 °C, non-condensing)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 13.2 Hz, amplitude ± 1.0 mm (according to IEC 60068-2-6) 13.2 Hz ... 100 Hz, 0.7g

Standards and regulations

Standard - Electrical safety	IEC 62368-1 (SELV)
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Approvals

UL approvals	UL Listed UL 508 UL/C-UL Recognized UL 60950-1
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EMC data

EMC requirements for noise emission	EN 61000-6-3 EN 61000-6-4
EMC requirements for noise immunity	EN 61000-6-1

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	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Contact discharge	6 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Comments	Criterion A
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz ... 3 GHz
Test field strength	10 V/m (Test Level 3)
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 4 - asymmetrical)
Comments	Criterion A
Surge voltage load (surge)	
Standards/regulations	EN 61000-4-5
Input	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Output	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion A
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
I/O/S	asymmetrical
Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V (Test Level 3)
Emitted interference	
Emitted radio interference in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential

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Criteria

Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

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