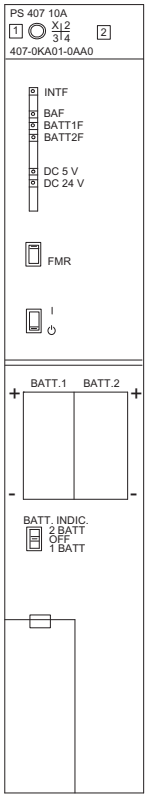
3.8 Power supply modules PS 407 10A (6ES7407-0KA01-0AA0) and PS 10A R (6ES7407-0KR00-0AA0)

Function

The power modules PS 407 10A (standard) and PS 407 10A R (for redundant operation, see Redundant power supply modules (Page 49)) are designed for connection to an 85-264 V AC network or an 88-300 V DC network, and supply 5 V/10 A DC and 24 V/1 A DC at the secondary side.

PS 407 10A and PS 407 10A R operator control and monitoring elements



Securing screw

LED displays INTF, BAF, BATT1F, BATT2F, DC 5 V, DC 24 V

FMR button (Failure Message Reset)

Standby switch (no disconnection from power)

Below cover

Battery compartment

BATT. INDIC switch, 2 BATT, OFF, 1 BATT

3-pin plug-in power supply connector

Securing screw

Figure 3-4 PS 407 10A and PS 407 10A R operator control and monitoring elements

Mains connection

An AC power plug is used with PS 407 10A and PS 407 10A R both for connection to an AC network and connection to a DC network.

Reverse polarity of L+ and L-

Reverse polarity of L+ and L with a supply voltage of DC 88 V to DC 300 V does not affect the function of the power supply. The connection must comply with the instructions in the installation manual.

PS 407 10A and PS 407 10A R technical specifications

Dimensions, weight and cable cross-sections	
Dimensions W x H x D (mm) Weight Cable cross-section Cable diameter	50x290x217 1.36 kg 3x1.5 mm^2 (stranded wire with wire end ferrule with insulating sleeve; use hose line only) 3 to 9 mm
Input variables	
Input voltage	
• Rated value	110/230 V DC 120/230 V AC
• Permitted range	88 to 300 V DC 85 to 264 V AC (wide range input)
Line frequency	
• Rated value	50/60 Hz
• Permitted range	47 to 63 Hz
Rated input current	
• With 120 V AC	0.9 A
• At 110 V DC	1.0 A
• At 230 V AC	0.5 A
• At 230 V DC	0.5 A
Inrush current	
• At 230 V AC	Peak value 230 A, full width at half maximum 200 µs peak value 63 A*, full width at half maximum 1 ms*
• At 300 V DC	Peak value 230 A, full width at half maximum 200 µs peak value 58 A*, full width at half maximum 1 ms*
Leakage current	< 3.5 mA
Output variables	
Output voltage	
• Rated values	5.1 V DC/24 V DC
Output current	
• Rated values	5 V DC: 10 A 24 V DC: 1.0 A
Parameters	
Protection class pursuant to IEC 60536	I, with protective conductor
Overvoltage category	II
Pollution degree	2
Rated voltage U_e $0 < U_e \leq 50$ V 150 V $< U_e \leq 300$ V	Test voltage 700 V DC (secondary <-> PE) 2200 V DC (primary <-> secondary/PE)

Backup for power failures	> 20 ms at a repeat rate of 1 s, meets NAMUR recommendation NE 21
Power consumption	105 W, PS 407 10A from product version 5 105 W, PS 407 10A R from product version 7 95 W, PS 407 10A from product version 10
Power loss	29.7 W 20 W, PS 407 10A from product version 10
Backup current	maximum of 100 µA when power off
Back-up batteries (option)	2 x lithium AA, 3.6 V/2.3 Ah
Protective separation in accordance with IEC 61131-2	Yes
*PS 407 10A: from product version 5 * PS 407 10A R: from product version 7	