

DS-PR531-3A Bus Power Supply Unit (3A)



- Delivers stable power to all connected system devices
- 3A AUX output (shared with bus power) for detectors and peripherals
- 3A dedicated siren output for reliable alarm notification
- Total combined output up to 4A (AUX/Bus + Siren)
- Built-in bus extender for extended bus range
- Supports expander slots for flexible system expansion
- Backup battery support (7Ah) for uninterrupted operation

▪ Specification

Outputs	
Auxiliary Power Output	1
On-board sounder output	1
Bus interconnection	
Bus-extender	Yes
Bus technology	Half-Duplex RS-485
Bus wiring	4-Core Alarm Cable (at least 2×0.5mm ² +2×0.22mm ²)
Power supply - general	
PS type	Type A
Quiescent current	75 mA @15VDC (when on battery without external load)
Power supply - primary power supply	
Mains Input	~ 100-240V 50/60Hz, 1.4 A typ. @115 VAC, 0.85 A typ. @ 230 VAC
Power supply capacity	15 VDC 5 A (0.5 A dedicated to battery)
Power supply - auxiliary power supply	
Battery pack	1 × rechargeable sealed lead-acid (SLA) battery (not included by default)
Battery capacity	12VDC, up to 7Ah (≥ 5600 mAh in charged state)
Recommended battery	OUTDO OT7-12 (7Ah), Yuasa NP7-12FR (7Ah)
Battery stand-by	Up to 12 hrs
Recharge period	24 hrs to 80% (5600 mAh)
Floating voltage	13.8VDC
Low energy voltage	11.60±0.5 V (Restore when rise above 11.74±0.5 V)
Cut-off voltage	11.0 VDC for deep-discharge protection
Power supply - general output	
Total output capacity	Nominal 14.5VDC 4 A, range 10.7-15 VDC with up to 120 mV ripple (VPP)
Total output protection	4 A resettable eFuse
Power supply - auxiliary power output	
Output protection	3 A resettable eFuse
Power supply - Bus power output	
Output protection	(Shared AUX power output)
Power supply - sounder power output	
Output protection	3 A resettable eFuse
Environmental	
Operating temperature	-10°C to 50°C (14°F to 122°F), indoor use only
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Relative humidity	10% ~ 90% non-condensing
Physical	
Dimension (W × H × D)	360 mm × 260 mm × 96.3 mm
Weight	1500 g
Tamper-proof	Front and Rear
Installation method	Wall mount
Compliance	
Electrical conformity	CE, CB
EN 50131	Security Grade 2, Environmental Class II

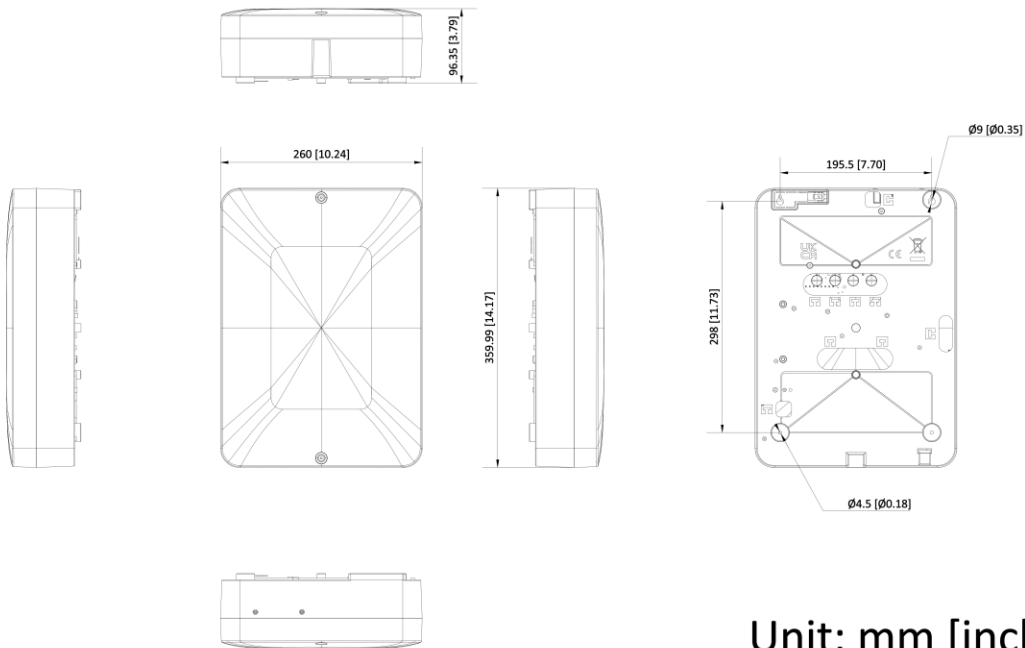
**Specifications are measured under laboratory conditions. Actual performance may vary depending on operating environment and application-specific factors.*

**Battery standby duration applies when all functions are operational and the load connected to the AUX-/AUX+ terminals does not exceed 500 mA.*

▪ **Available Model**

DS-PR531-3A

▪ **Dimension**



Unit: mm [inch]

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