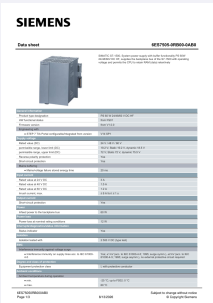


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7505-0RB00-0AB0

SIMATIC S7-1500 PS 60W 24/48/60V DC HF



BACKPLANE INFEED	BUFFER ROLE	NOMINAL INPUT	BODY WIDTH
60 W	CPU data retention	24 / 48 / 60 V DC	105 mm

Siemens 6ES7505-0RB00-0AB0 is the SIMATIC S7-1500 PS 60W 24/48/60V DC HF system power supply with buffer functionality. It supplies the backplane bus with up to 60 W and supports retentive storage of the data work memory of an eligible CPU when power is removed.

01

VERIFIED PRODUCT PARAMETERS

Nominal DC input	24, 48 or 60 V DC
Permissible input-voltage range	Static 19.2-72 V; dynamic 18.5-75.5 V
Backplane infeed power	60 W
Rated input currents	3 A at 24 V; 1.5 A at 48 V; 1.2 A at 60 V
Maximum inrush current	8 A for up to 1 s
Nominal power loss	12 W
Mains-failure stored-energy time	20 ms
Isolation type-test voltage	2500 V DC
Minimum engineering version	STEP 7 TIA Portal V14 SP1
Temperature limits by hardware	Horizontal max. 60 deg C; vertical max. 40 deg C; min. 0 deg C up to FS02, -25 deg C later

Technical values were verified against Siemens exact datasheet 08/13/2026; A5E03461182-AN system manual, 11/2025 and the Siemens Industry Mall record for the exact article number.

02 MECHANICAL AND LIFECYCLE DATA

Dimensions (W x H x D)	105 x 147 x 129 mm
Weight (official datasheet)	Approx. 0.87 kg
Country of origin	Germany
Lifecycle at verification	PM300 Active Product

03 SYSTEM ROLE AND APPLICATIONS

Extended retentivity requires the compatible CPU hardware, CPU firmware V2.1.0 or higher and STEP 7 V14 SP1 or higher described in the Siemens system manual. Install the HF supply in slot 0 and apply the specified CPU power and startup settings; this is not a field-load UPS or a supply for a downstream power segment.

- Data retention: save eligible CPU data work memory at power-off in the specified HF configuration.
- Segmented cabinets: reserve slot 0 for HF and engineer other power segments with suitable different supplies.
- Station retrofit: verify CPU eligibility and required startup checks before accepting an extended-retention upgrade.

04 OFFICIAL INSTALLATION FACTS

- Establish the station safe state and isolate the incoming supply before mounting or wiring.
- Insert the HF supply only in slot 0 to the left of the CPU or interface module.
- For the HF arrangement, do not connect the 24 V supply directly to the CPU; follow the system-manual diagram.
- Set the CPU to No connection to supply voltage L+ and the HF module to Startup CPU only if compatible.

05 OFFICIAL DOCUMENTATION

Siemens exact datasheet 08/13/2026; A5E03461182-AN system manual, 11/2025

AMIKON PRODUCT SUPPORT

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