## **SIEMENS**

## Data sheet

## 6AG1505-0KA00-7AB0

SIPLUS S7-1500 PS 1505 25W 24VD 40...+70°C start up -25°C with conformal coating based on 6ES7505-0KA00-0AB0 . SYSTEM POWER SUPPLY SUPPLIES THE OPERATING VOLTAGE THE S7-1500 VIA THE BACKPLANE B



Figure similar

General information	
Product type designation	PS 25W 24VDC
HW functional status	E01
Firmware version	V1.0.0
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated as of version</li> </ul>	V12 / V12
<ul> <li>STEP 7 configurable/integrated as of version</li> </ul>	V5.5 SP3 or higher
Redundancy	
<ul> <li>Redundancy capability</li> </ul>	Yes
— for uprating	Yes
Supply voltage	
Rated value (DC)	24 V; SELV
permissible range, lower limit (DC)	Static 19.2 V, dynamic 18.5 V
permissible range, upper limit (DC)	Static 28.8 V, dynamic 30.2 V
Reverse polarity protection	Yes
Short-circuit protection	Yes

Mains buffering	
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	20 ms
Output current	
Short-circuit protection	Yes
Power	
Infeed power to the backplane bus	25 W; > +60 °C max. power input 12.5 W
Power loss	
Power loss at nominal rating conditions	6.2 W
Interrupts/diagnostics/status information	
Status indicator	Yes
Potential separation	
primary/secondary	Yes; Electrical isolation for max. 60 V AC/75 V DC (base isolation)
Isolation	
Isolation tested with	707 V DC (type test)
EMC	
Interference immunity against voltage surge	
• on the supply lines acc. to IEC 61000-4-5	Yes; ±1 kV (acc. to IEC 61000-4-5; 1995; surge symm.), ±2 kV (acc. to IEC 61000-4-5; 1995; surge asymm.), no external protective circuit required
Degree and class of protection	
Degree of protection acc. to EN 60529	IP20
	IP20 III, with protective conductor
Degree of protection acc. to EN 60529 Equipment protection class Ambient conditions	
Degree of protection acc. to EN 60529 Equipment protection class	III, with protective conductor
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Degree of protection acc. to EN 60529 Equipment protection class Ambient conditions Ambient temperature during operation • min. • max.	III, with protective conductor
Degree of protection acc. to EN 60529 Equipment protection class Ambient conditions Ambient temperature during operation • min.	III, with protective conductor -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; for vertical mounting position Tmax = +40 °C
Degree of protection acc. to EN 60529 Equipment protection class Ambient conditions Ambient temperature during operation • min. • max.	III, with protective conductor -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; for vertical mounting position Tmax = +40 °C -40 °C
Degree of protection acc. to EN 60529 Equipment protection class Ambient conditions Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max.	III, with protective conductor -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; for vertical mounting position Tmax = +40 °C
Degree of protection acc. to EN 60529 Equipment protection class Ambient conditions Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. Altitude during operation relating to sea level	III, with protective conductor -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; for vertical mounting position Tmax = +40 °C -40 °C 70 °C
Degree of protection acc. to EN 60529 Equipment protection class Ambient conditions Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. Altitude during operation relating to sea level • Installation altitude above sea level, max.	III, with protective conductor -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; for vertical mounting position Tmax = +40 °C -40 °C 70 °C 5 000 m
Degree of protection acc. to EN 60529 Equipment protection class Ambient conditions Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. Altitude during operation relating to sea level	III, with protective conductor -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; for vertical mounting position Tmax = +40 °C -40 °C 70 °C
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Degree of protection acc. to EN 60529         Equipment protection class         Ambient conditions         Ambient temperature during operation         • min.         • max.         Ambient temperature during storage/transportation         • min.         • max.         Attitude during operation relating to sea level         • Installation altitude above sea level, max.         • Ambient air temperature-barometric pressure-altitude         Relative humidity         • With condensation, tested in accordance with IEC 60068-2-38, max.	<ul> <li>III, with protective conductor</li> <li>-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C</li> <li>70 °C; = Tmax; for vertical mounting position Tmax = +40 °C</li> <li>-40 °C</li> <li>-40 °C</li> <li>70 °C</li> <li>5 000 m</li> <li>Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)</li> <li>100 %; RH incl. condensation/frost (no commissioning under</li> </ul>

Posistant to commercially evaluable	Yes; Incl. diesel and oil droplets in the air
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	י כס, וווט. טוכסבו מווע טו עוטטובנס ווו נווב מוו
Use in stationary industrial systems	
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *
<ul> <li>— to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *
<ul> <li>— to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc.</li> <li>to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high availability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> </ul>	Yes; Conformal coating, Class A
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	350 g
last modified:	08/30/2019