



Figure similar

SIPLUS S7-1500 PS 1505 60W 24/48/60V DC based on 6ES7505-0RA00-0AB0 with conformal coating, -40...+70 °C, start up -25 °C, system power supply supplies the backplane bus of the S7-1500 with operating voltage

General information	
Product type designation	PS 60 W 24/48/60 V DC
based on	6ES7505-0RA00-0AB0
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275
Supply voltage	
Rated value (DC)	24 V / 48 V / 60 V
permissible range, lower limit (DC)	19.2 V; Static 19.2 V, dynamic 18.5 V
permissible range, upper limit (DC)	72 V; Static 72 V, dynamic 75.5 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
Rated value at 24 V DC	3 A
Rated value at 48 V DC	1.5 A
Rated value at 60 V DC	1.2 A
Power	
Infeed power to the backplane bus	60 W; > +60 °C max. power input 30 W
Power loss	
Power loss at nominal rating conditions	12 W
Interrupts/diagnostics/status information	
Status indicator	Yes
Potential separation	
primary/secondary	Yes; Electrical isolation for 230 V AC (reinforced isolation)
Isolation	
Isolation tested with	2 500 V DC/2 s (routine test)
EMC	
Interference immunity against voltage surge	
• Interference immunity on 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	
IP degree of protection	IP20
Equipment protection class	I, with protective conductor
Ambient conditions	
Ambient temperature during operation	
• min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C
• max.	70 °C; = Tmax; > +60 °C max. power input 30 W; for vertical mounting position

		Tmax = +40 °C	
Ambient temperature during storage/transportation			
• min.		-40 °C	
• max.		70 °C	
Altitude during operation relating to sea level			
• Installation altitude above sea level, max.		5 000 m	
• Ambient air temperature-barometric pressure-altitude		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)	
Relative humidity			
• With condensation, tested in accordance with IEC 60068-2-38, max.		100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
Resistance			
Coolants and lubricants			
— Resistant to commercially available coolants and lubricants		Yes; Incl. diesel and oil droplets in the air	
Use in stationary industrial systems			
— to biologically active substances according to EN 60721-3-3		Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	
— to chemically active substances according to EN 60721-3-3		Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	
— to mechanically active substances according to EN 60721-3-3		Yes; Class 3S4 incl. sand, dust, *	
Use on ships/at sea			
— to biologically active substances according to EN 60721-3-6		Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	
— to chemically active substances according to EN 60721-3-6		Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	
— to mechanically active substances according to EN 60721-3-6		Yes; Class 6S3 incl. sand, dust; *	
Usage in industrial process technology			
— Against chemically active substances acc. to EN 60654-4		Yes; Class 3 (excluding trichlorethylene)	
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04		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			
— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04		* The supplied plug covers must remain in place over the unused interfaces during operation!	
Conformal coating			
• Coatings for printed circuit board assemblies acc. to EN 61086		Yes; Class 2 for high reliability	
• Protection against fouling acc. to EN 60664-3		Yes; Type 1 protection	
• Military testing according to MIL-I-46058C, Amendment 7		Yes; Discoloration of coating possible during service life	
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A		Yes; Conformal coating, Class A	
Dimensions			
Width		70 mm	
Height		147 mm	
Depth		129 mm	
Weights			
Weight, approx.		600 g	
Classifications			
		Version	Classification
	eClass	16	27-24-22-09
	eClass	14	27-24-22-09
	eClass	12	27-24-22-09
	eClass	9.1	27-24-22-09
	eClass	9	27-24-22-09
	eClass	8	27-24-22-09
	eClass	7.1	27-24-22-09

eClass	6	27-24-22-09
ETIM	10	EC000599
ETIM	9	EC000599
ETIM	8	EC000599
ETIM	7	EC000599
IDEA	4	3575
UNSPSC	15	32-15-17-06

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



[China RoHS](#)



General Product Approval

EMV

For use in hazardous locations

[China RoHS](#)



For use in hazardous locations

Maritime application



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