

The essential guide

Power supplies and transformers

2013



Schneider Electric offers complete and compact ranges of power supplies (switch mode or filtered rectified) and transformers. With the Phaseo range, your installations will be equipped with a high quality AC or DC power supply compliant with international standards.

Phaseo

Phaseo offers universal power supplies and protection modules with a very wide operating range to provide continuity of service for your installations. An innovative offer, Phaseo integrates numerous features which set the standard across this market.



Contents

 This document is a selection of the top selling products.
For more information:
<http://www.schneider-electric.com>

Power supplies

Regulated switch mode power supplies and accessories
Phaseo ABL8, ABL7, ABL4, ABL1 2 to 5

Filtered rectified power supplies
Phaseo ABL8 5

Transformers

Phaseo ABL6, ABT7 6



Type of power supply	7 to 60 W Single-phase					
Rated input voltage	100...240 VAC					
Rated output voltage	24 V			5 V		12 V
Rated power / Rated output current	7.5 W / 0.3 A	15 W / 0.6 A	30 W / 1.2 A	60 W / 2.5 A	20 W / 4 A	25 W / 2 A
Reset	Auto					
Conformity to IEC 61000-3-2	Without					
Certifications	cULus, cCSAus, TUV, CE, C-Tick					
Dimensions W x D x H (mm)	36 x 59 x 90		54 x 59 x 90	72 x 59 x 90	54 x 59 x 90	
Fixing (mm)	DIN rail 35x7.5 or 35x15 or on panel mount by screw					
References	ABL8MEM24003	ABL8MEM24006	ABL8MEM24012	ABL7RM24025	ABL8MEM05040	ABL8MEM12020



Type of power supply	72 to 240 W Single-phase - Wide input range		
Rated input voltage	100...120 VAC and 200...500 VAC		
Rated output voltage	24 V		
Rated power / Rated output current	72 W / 3 A	120 W / 5 A	240 W / 10 A
Permissible temporary inrush current (boost)	1.5 In during 4 s		
Reset	Auto or manual		
Conformity to IEC 61000-3-2	Yes		
Diagnostic relay (output voltage > 21.6V)	No	Yes	
Certifications	cCSAus, CB scheme, CE		
Dimensions W x D x H (mm)	44 x 120 x 143	56 x 120 x 143	85 x 140 x 143
Fixing (mm)	DIN rail 35x7.5 or 35x15		
References	ABL8RPS24030	ABL8RPS24050	ABL8RPS24100

Regulated, switch mode Compact - Rail mounting



Type of power supply	85 to 480W Single-phase			
Rated Input Voltage AC	120...230V 50/60Hz		120/230V	
Rated Input Voltage DC	100...370V		300...350 V	
Rated adjustable output Voltage	23...27,5 V			24...28V
Rated power / Rated output current	84W / 3,5A	120W / 5A	240W / 10A	480W / 20A
Temporary permissible inrush current output	6A for 30s	8A for 30s	15A for 30s	30A for 5s
Reset after overload	Auto			
Diagnostic relay (output voltage > 21.6V)	Yes			
Fixing (mm)	DIN rail 35 x 7,5			
Dimensions W x D x H (mm)	39 x 115 x 134		64 x 140 x 139	80 x 127 x 146
References	ABL4RSM24035	ABL4RSM24050	ABL4RSM24100	ABL4RSM24200



60 to 144 W single-phase

100...240 VAC			
24 V		12 V	48 V
72 W / 3 A	120 W / 5 A	60 W / 5 A	144 W / 2.5 A
Auto		Auto or manual	
No		Yes	
cULus, cCSAus, TUV, CE, C-Tick			
27 x 120 x 120		54 x 120 x 120	
DIN rail 75x7.5, 35x7.5 or 35x15			
ABL8REM24030	ABL8REM24050	ABL7RP1205	ABL7RP4803



480 to 960 W single and 3-phases

100...120 VAC and 200...240 VAC	3 x 380...500 VAC	
24 V		
480 W / 20 A	960 W / 40 A	
1.5 In during 4 s		
Auto or manual		
Yes		
Yes		
cCSAus, CB scheme, CE		
145 x 140 x 143	95 x 155 x 143	165 x 155 x 143
DIN rail 35x7.5 or 35x15		
ABL8RPM24200	ABL8WPS24200	ABL8WPS24400

Type of module

Compatibility	Output connection of power supplies ABL8RPS24..., ABL8WPS24..., ABL4RSM24... and ABL4WSR24...
Rated output voltage	5 V 12 V
Rated output current	6 A 2 A
Certifications	cCSAus, CB scheme, CE
Dimensions W x D x H (mm)	44 x 140 x 146
Fixing (mm)	DIN rail 35x7.5 or 35x15
References	ABL8DCC05060 ABL8DCC12020

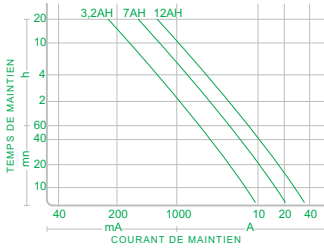
Converters DC/DC



Type of power supply

480 to 960W 3-phase

Rated Input Voltage AC	400 ... 500V 50/60 Hz		
Working on 2 phases	Possible with output current = 75% of the nominal output current.		
Output Voltage	24V		
Rated power / Rated output current	480W / 20A	720W / 30A	960W / 40A
Temporary permissible inrush current output	30A for 5s	45A for 5s	60A for 5s
Reset after overload	Auto		
Diagnostic relay	Yes		
Fixation (mm)	DIN rail 35 x 7,5		
Dimensions W x D x H (mm)	80 x 127 x 146		
References	ABL4WSR24200	ABL4WSR24300	ABL4WSR24400



Type of module	Microcuts and cuts network solutions. (1)		
Compatibility	Output connection of Universal power supplies ABL8RPS24..., ABL8WPS24..., ABL4RSM24..., ABL4WSR24...		
Technology	Buffer module	battery backup module + battery	
Rated output voltage	40 A	20 A	40 A
Holding time 1A	2 s typique	adjustable from 10 s to 24 H (battery depending)	
Holding time for maximum current output	100 ms typique	adjustable from 10 s to 30 mn (battery depending)	adjustable from 10 to 10 mn (battery depending)
Certifications	cCSAus, CB scheme, CE		
Dimensions W x D x H (mm)	85 x 140 x 146	86 x 175 x 143	86 x 175 x 143
Fixing (mm)	DIN rail 35x7.5 or 35x15 (1)		
References Control module	ABL8BUF24400	ABL8BBU24200	ABL8BBU24400
References battery	3,2AH (2)	ABL8BPK24A03	ABL8BPK24A03
	7AH (2)	ABL8BPK24A07	ABL8BPK24A07
	12AH (2)	ABL8BPK24A12	ABL8BPK24A12

(1) Battery module except 7AH and 12AH. For battery module 3.2AH with ABL1A02 kit.

(2) Battery to be chosen according to the graph above.



Type of module	Redundancy power supplies solutions
Compatibility	Connection of 2 power supplies inputs ABL4... or ABL8RP, ABL8WP up to 20 A (1 power supply 40A)
Rated output voltage	24 V
Rated output current	40 A
Certifications	cCSAus, CB scheme, CE
Dimensions W x D x H (mm)	44 x 140 x 146
Fixing (mm)	DIN rail 35x7.5 ou 35x15
References	ABL8RED24400

Type of module	Starter protection solution
Compatibility	Output connection of Universal power supplies ABL8RPS24100..., ABL8RPM24200..., ABL8WPS24..., ABL4RSM24... and ABL4WSR24...
Rated output current	10A par voie
Calibres	1 / 2.5 / 4 / 5 / 7 / 8 / 10 A
Number of channels	4
Diagnostic relay	Yes
Manual switch off (1 per channel)	Two-pole
Certifications	cCSAus, CB scheme, CE
Dimensions (mm)	71 x 109 x 110
Fixing (mm)	DIN rail 35x7.5 or 35x15 or on panel mount by screw
References	ABL8PRP24100



Type of power supply		60W to 240W					
Input voltage		85...264 VAC			85...132 VAC / 170...264 VAC		
Output voltage		12 VDC		24 VDC		24 VDC	
Rated power / Rated output current		60 W / 5 A	100 W / 8.3 A	60 W / 2.5 A	100 W / 4.2 A	150 W / 6.2 A	240 W / 10 A
Certifications		UL, c CSA us, CE, Ctick					
Dimensions W x D x H (mm)		150 x 38 x 98	200 x 38 x 98	150 x 38 x 98	200 x 38 x 98	200 x 50 x 98	200 x 65 x 98
Fixing (mm)		Panel mount by screw, by bracket ABL1A01 (1), on DIN rail 35mm by panel ABL1A02 (1).					
References	Without filter	ABL1REM12050	–	ABL1REM24025	ABL1REM24042	ABL1REM24062	ABL1REM24100
	With filter (2)	–	ABL1RPM12083	–	ABL1RPM24042	ABL1RPM24062	ABL1RPM24100

(1) To be ordered separately.

(2) Anti harmonic IEC/EN 61000-3-2

Filtered rectified



Type of power supply		12W to 480W single-phase							
Input voltage		215/230/245 V or 385/400/415 VAC							
Rated output voltage		24 V							
Certifications		cULus, ENEC							
Rated power / Rated output current		12 W / 0.5 A	24 W / 1 A	48 W / 2 A	96 W / 4 A	144 W / 6 A	240 W / 10 A	360 W / 15 A	480 W / 20 A
Dimensions W x D x H (mm)		87 x 124 x 108	87 x 124 x 108	87 x 142 x 108	87 x 165 x 108	123 x 153 x 153	123 x 185 x 153	135 x 185 x 138	175 x 215 x 128
Fixing (mm)		DIN rail 35x7.5 or 35x15 or on panel mount by screw				On panel mount by screw			
References		ABL8FEQ24005	ABL8FEQ24010	ABL8FEQ24020	ABL8FEQ24040	ABL8FEQ24060	ABL8FEQ24100	ABL8FEQ24150	ABL8FEQ24200



Type of power supply		240W to 1440W 3-phases				
Input voltage		3x 380 / 400 / 420 V				
Rated output voltage		24 V				
Certifications		cULus, ENEC				
Rated power / Rated output current		240 W / 10 A	480 W / 20 A	720 W / 30 A	960 W / 40 A	1440 W / 60 A
Dimensions W x D x H (mm)		185 x 190 x 78	220 x 215 x 104	240 x 252 x 108	310 x 310 x 140	310 x 310 x 154
Fixing (mm)		On panel mount by screw				
References		ABL8TEQ24100	ABL8TEQ24200	ABL8TEQ24300	ABL8TEQ24400	ABL8TEQ24600

Phaseo Transformers



Type of transformer		Double winding operating temperature										
		+60°C										+50°C
Rated input voltage		230/400 VAC (±15 V) 1-phase										
Certifications		cULus, ENEC										
Rated power / Rated output current		25 VA	40 VA	63 VA	100 VA	160 VA	250 VA	320 VA	400 VA	630 VA	1000 VA	
Visualization		LED display of voltage presence at primary										Without
Fixing (mm)		DIN rail 35x15 or on panel mount by screw							On panel mount by screw			
References		ABT7PDU**(1)										ABT7TDU**(1)
	Rated output voltage	24/48 V	002B	004B	006B	010B	016B	025B	032B	040B	063B	100B
		115/230 V	002G	004G	006G	010G	016G	025G	032G	040G	063G	100G

(1) Complete the reference according to the power and voltage using the table below (example: ABT7PDU002G)



Type of transformer		Single winding operating temperature +50°C										
Rated input voltage		230/400 VAC (±15 V) 1-phase										
Certifications												
Rated output power		25 VA	40 VA	63 VA	100 VA	160 VA	250 VA	400 VA	630 VA	1000 VA		
Fixing (mm)		On panel mount by screw										
References		ABL6TS**(2)										
	Rated output voltage	24 V	02B	04B	06B	10B	16B	25B	40B	63B	100B	
		115 V	02G	04G	06G	10G	16G	25G	40G	63G	100G	
		230 V	02U	04U	06U	10U	16U	25U	40U	63U	100U	

(2) Complete the reference according to the power and voltage using the table below (example: ABL6TS02G)



Type of transformer		Single winding operating temperature +40°C							
Rated input voltage		230 VAC (±15 V) 1-phase							
Certifications		Without							
Rated power / Rated output current		40 VA	63 VA	100 VA	160 VA	250 VA	320 VA	400 VA	
Fixing (mm)		On panel mount by screw							
References		ABT7ESM**(3)							
	Rated output voltage	24 V	004B	006B	010B	016B	025B	032B	040B

(3) Complete the reference according to the power and voltage using the table below (example: ABT7ESM004B)

This section of the page is a large, vertically-oriented area for taking notes. It features a solid green horizontal bar at the top, followed by a series of alternating light green and medium green horizontal stripes that create a lined effect. This area occupies most of the page's vertical space.

Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier - CS 30323
F92500 Rueil-Malmaison Cedex
France

www.schneider-electric.com

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Design : IGS-CP
Photos : Schneider Electric
Print :