

Power supplies & Voters

ABB Ability™ System 800xA® hardware selector



Space-saving power supplies intended for use with the control and I/O product lines with a selectable output of 3 - 40 A. Also available are relevant voters for redundant configurations.

The range also supports power supply configurations of the AC 800M and S800 I/O-based IEC 61508-SIL2 and SIL3-rated solutions. A Mains Breaker Kit for DIN Rail is also available for our power supplies and voters.

For updated information regarding this hardware please visit our Hardware Selector. In the hardware selector, you can compare different controllers, communication interfaces, I/O systems, I/O module termination units, network equipment, panels, power supplies & voters. Print your own PDF files or save an outline of all modules in the product area.

Below is an outline of the range of different power supplies and voters available.



Specific feature ¹	SD831	SD832	SD833	SD834
General info				
Article number	3BSC610064R1	3BSC610065R1	3BSC610066R1	3BSC610067R1
Type	Power supply			
Rated output current	3 A	5 A	10 A	20 A
Rated output power	72 W	120 W	240 W	480 W
Rated output voltage	d.c. 24 V			
Rated input power	134/143 VA	240/283 VA	447/514 VA	547/568 VA
Mains/input voltage, nominal	100-240 V a.c. 110-300 V d.c.	100-120 V a.c. 200-240 V a.c. Auto-select input		100-240 V a.c. 110-150 V d.c.
Applications	SELV and PELV			
Efficiency	88/89.8 %	89.4/90.2 %	91/91.6 %	92.4/93.9 %
Dimensions				
Width	32 mm (1.26")		60 mm (2.36")	82 mm(3.23")
Depth	102 mm (4.02")	117 mm (4.61")		127 mm(5.0")
Height	124 mm (4.88")			
Weight (lbs.)	430 g (0.9 lbs.)	500 g (1.1 lbs.)	700 g (1.5 lbs.)	1200 g (2.6 lbs.)
Mounting spacing W mm	15 mm (0.59")			
Mounting spacing H mm	40 mm (1.57")			
Environment and certification				
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)			
WEEE compliance	DIRECTIVE/2012/19/EU			

¹ For detailed information on each module, please visit: 800xahardwareselector.automation.abb.com



Specific feature ¹	SD853	SD854	SS823	SS832
General info				
Article number	3BSE088188R1	3BSE088189R1	3BSE038226R1	3BSC610068R1
Type	Power supply		Voter and Over Voltage Protection	Voter
Rated output current	10 A	20 A	10 A (20 A in parallel operation)	
Rated output power	240 W	480 W	-	
Rated output voltage	24 V d.c.		-	
Rated input power			500 W	2 x 10 A
Mains/input voltage, nominal	100-240 V a.c. 110-150 V d.c.		1x24 V d.c.	2x24 V d.c.
Applications	SELV and PELV		-	
Efficiency	93.6/95.2 % @ 120/230 V a.c.	92.4/95.6 % @120/230 V a.c.	-	
High integrity			Yes	
Dimensions				
Width	39 mm (1.53")	48 mm (1.88")	116 mm(4.6")	32 mm (1.26")
Depth	117 mm (4.60")	127 mm (5.00")	145 mm (5.8") including connector	117 mm (4.61")
Height	124 mm (4.88")		132 mm (5.3")	125 mm (4.9")
Weight (lbs.)	600 g (1.32 lbs.)	830 g (1.83 lbs.)	870 g (1.9 lbs.)	350 g (0.77 lbs.)
Mounting spacing W mm	15 mm (0.59")			
Mounting spacing H mm	40 mm (1.57")		30 mm (1.2")	25 mm (1")
Environment and certification				
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)			
WEEE compliance	DIRECTIVE/2012/19/EU			

¹ For detailed information on each module, please visit: 800xahardwareselector.automation.abb.com



Specific feature ¹	SS855
General info	
Article number	2PAA125624R1
Type	Voter
Rated output current	40 A
Rated input current	2 x 20 A
Input voltage range	2* 8.4...36.4 V
Dimensions	
Width	36 mm
Depth	127 mm
Height	124 mm
Weight (lbs.)	280 g
Mounting spacing W mm	5 mm
Mounting spacing H mm	top 40 mm, bottom 20 mm
Environment and certification	
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)
WEEE compliance	DIRECTIVE/2012/19/EU

¹ For detailed information on each module, please visit: 800xahardwareselector.automation.abb.com

Accessories



Specific feature ¹	Mains Breaker kit, DIN Rail	SB822
General info		
Article number	3BSE022262R1	3BSE018172R1
Type	Mains Breaker kit	Rechargeable battery unit
Rated output current	3 fused (6.3 A) double output terminals	
Mains/input voltage, nominal	115/230 V	
Rated output voltage		3.6 V
Dimensions		
Width	102.5 mm (4.04")	85.8 mm (3.38")
Weight (lbs.)	0.5 kg (1.1 lbs.)	550 g (0.121 lbs.)
Depth		58.5 mm (2.3")
Height		136 mm (5.35") incl. hatch
Environment and certification		
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)	
WEEE compliance	DIRECTIVE/2012/19/EU	

¹ For detailed information on each module, please visit: 800xahardwareselector.automation.abb.com

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