

Last update: Jan 18 2023



		Model D (7A)	Model D (10A)	Model E (20A)	Model MN - USB			Model HB - USB				Model AL - USB				
		SBS03607D	SBS01210D SBS02410D	SBS1220E SBS2420E	SBS6-38MN	SBS6-64MN	SBS6-36MN	SBS6-32HR	SBS6-64HB		SBS6-32AL		SBS6-64AL			
		SBS(08S_11S)07D	SBS(02S_8S)10D	SBS(2S_7S)20E												
Status		Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active			
Internal circuit	type	analog	analog	analog	mcu digital			mcu digital				mcu digital				
Case	type	epoxy sealed pcb	epoxy sealed pcb	epoxy sealed pcb	non sealed PCB covered with label tape			epoxy sealed ABS plastic				epoxy sealed aluminum				
Weight	grams	20	20	20	20 (with TX60 connectors)			100				460				
Operating voltage range	V	6...55	6...38	6...36	6...38	6...64	6...36	6...32	6...64	6...32	6...64	6...32	6...64			
Continuous current (max)	A	7	10	20	10	7	14	20	60	120	50	100	160	240	160	200
Reverse (charge) current (max)	A	2	3	4	2	2	4	20	60	120	50	100	160	240	160	200
Switch ON resistance (at 25 °C)	mOhm	20	10	5	10	20	10	5	1	0.5	1.4	0.7	0.5	0.25	0.5	0.3
Self consumption (On / Off)	mA	1.5 / 0.08	1.5 / 0.08	1.5 / 0.2	2 / 0.4	2 / 0.4	3.4 / 0.4	1.4 / 0.4	0.75 / 0.35				1.5 / 0.7			
Price (retail)	EUR	34	34	34	49	49	59	59	75	95	75	95	177	195	177	195
	USD	38	38	38	53	53	64	64	85	108	85	108	200	220	200	220
	GBP	28	28	28	42	42	50	50	65	82	65	82	153	169	153	169
Short circuit protection		PROTECTED if input voltage < 48V	PROTECTED if input voltage < 30V	PROTECTED if input voltage < 34V	PROTECTED if input voltage < 30V	PROTECTED if input voltage < 48V	PROTECTED if input voltage < 34V	(1) PROTECTED on turn-ON otherwise circuit breaker should be used		(1) PROTECTED on turn-ON otherwise circuit breaker should be used		(1) PROTECTED on turn-ON otherwise circuit breaker should be used		(1) PROTECTED on turn-ON otherwise circuit breaker should be used		
Overcurrent protection		YES will shut down - resets only on power cycle or remote force-off	YES will shut down - resets only on power cycle or remote force-off	YES will shut down - resets only on power cycle or remote force-off	YES precise with adjustable delay and auto restart	YES precise with adjustable delay and auto restart	YES precise with adjustable delay and auto restart	YES but very rough threshold steps - 1/5 of max current, adjustable delay and auto restart		YES but very rough threshold steps - 1/3 of max current, adjustable delay and auto restart		YES but very rough threshold steps - 1/5 of max current, adjustable delay and auto restart		YES but very rough threshold steps - 1/3 of max current, adjustable delay and auto restart		
Reverse voltage protection		Max -16V	Max -16V	Max -16V	NO	NO	NO	NO		NO		NO		NO		
Thermal protection		YES 120°C	YES 120°C	YES 120°C	(2)YES max 70°C	(2)YES max 70°C	(2)YES max 70°C	(2)YES max 70°C		(2)YES max 70°C		(2)YES max 80°C		(2)YES max 80°C		

Notes:

1. PROTECTED on turn-ON means that device can detect short circuit only while in transition from off to on. If short circuit occurs while device is in on state - circuit breaker should be used.
2. User can set own temperature working range.