








|                                 |       |  |  |  |  |                                   |   |                                  |   |                                  |   |                                  |   |
|---------------------------------|-------|---|---|---|--|---|---|---|---|---|---|---|---|
|                                 |       | Model C2  | Model D   | Model HA  |  | Model HA - USB  |   | Model HB - USB  |   | Model AL - USB  |   | Model PL - USB  |   |
|                                 |       | SBS1215C2   | SBS01205D   | SBS12HA   | SBS36HA  | SBS6-32HA   |   | SBS6-64HA   |   | SBS6-32HB   |   | SBS6-64HB   |   |
|                                 |       | SBS2415C2   | SBS02405D   | SBS24HA   | SBS48HA  |   |   |   |   |   |   |   |   |
|                                 |       | SBS(2S_7S)15C2  | SBS03605D   |   |  |   |   |   |   |   |   |   |   |
|                                 |       |   | SBS04805D   |   |  |   |   |   |   |   |   |   |   |
|                                 |       |   | SBS(02S_14S)05D   |   |  |   |   |   |   |   |   |   |   |
| Internal circuit                | type  | analog  | analog  | analog  |  | mcu digital   |   | mcu digital   |   | mcu digital   |   | mcu digital   |   |
| Case                            | type  | epoxy sealed pcb  | epoxy sealed pcb  | epoxy sealed ABS plastic  |  | epoxy sealed ABS plastic  |   | epoxy sealed ABS plastic  |   | epoxy sealed aluminum   |   | non sealed ABS plastic  |   |
| Operating voltage range         | V     | 6...32  | 6...62  | 6...32  | 6...64   | 6...32  | 6...64  | 6...32  | 6...64  | 6...32  | 6...64  | 6...32  | 6...64  |
| Self consumption (On / Off)     | mA    | 3.3 / 0.15  | 1.5 / 0.09  | 0.3 / 0.2   |  | 1.5 / 0.7   |   | 0.75 / 0.35   |   | 1.5 / 0.7   |   | 0.75 / 0.35   |   |
| Continuous current (max)        | A     | 15  | 5   | 40 / 80   |  | 40 / 80   |   | 70 / 140  |   | 80 / 160 / 240  |   | 70 / 140 / 210  |   |
| Switch ON resistance (at 25 °C) | mOhm  | 7   | 20  | 2 / 1   |  | 2 / 1   |   | 0.7 / 0.35  |   | 1.4 / 0.7   |   | 1 / 0.5 / 0.25  |   |
| Weight                          | grams | 20  | 20  | 100   |  | 100   |   | 100   |   | 500   |   | 150   |   |
| Price (retail)                  | EUR   | 33  | 33  | 58 / 74   |  | 81 / 99   |   | 75 / 95   |   | 123 / 168 / 182   |   | 108 / 133 / 166   |   |
|                                 | USD   | 37  | 37  | 65 / 84   |  | 92 / 112  |   | 85 / 108  |   | 139 / 189 / 206   |   | 122 / 152 / 189   |   |
|                                 | GBP   | 28  | 28  | 50 / 64   |  | 70 / 86   |   | 65 / 82   |   | 106 / 145 / 158   |   | 93 / 115 / 144  |   |
| Short circuit protection        |       | YES<br>will shut down<br>- resets only on<br>power cycle<br>or remote force-off   | YES<br>will shut down<br>- resets only on<br>power cycle<br>or remote force-off   | NO<br>circuit breaker<br>should be used   | NO<br>circuit breaker<br>should be used                            | (1) PROTECTED<br>on turn-ON<br>otherwise<br>circuit breaker<br>should be used                                       | (1) PROTECTED<br>on turn-ON<br>otherwise<br>circuit breaker<br>should be used                                       | (1) PROTECTED<br>on turn-ON<br>otherwise<br>circuit breaker<br>should be used                                       | (1) PROTECTED<br>on turn-ON<br>otherwise<br>circuit breaker<br>should be used                                       | (1) PROTECTED<br>on turn-ON<br>otherwise<br>circuit breaker<br>should be used                                       | (1) PROTECTED<br>on turn-ON<br>otherwise<br>circuit breaker<br>should be used                                       | (1) PROTECTED<br>on turn-ON<br>otherwise<br>circuit breaker<br>should be used                                       | (1) PROTECTED<br>on turn-ON<br>otherwise<br>circuit breaker<br>should be used                                       |
| Overcurrent protection          |       | YES<br>will shut down<br>- resets only on<br>power cycle<br>or remote force-off   | YES<br>will shut down<br>- resets only on<br>power cycle<br>or remote force-off   | NO<br>circuit breaker<br>should be used   | NO<br>circuit breaker<br>should be used                            | YES<br>configurable delay and<br>auto restart feature,<br>but with rough<br>threshold steps -<br>1/5 of max current | YES<br>configurable delay and<br>auto restart feature,<br>but with rough<br>threshold steps -<br>1/3 of max current | YES<br>configurable delay and<br>auto restart feature,<br>but with rough<br>threshold steps -<br>1/5 of max current | YES<br>configurable delay and<br>auto restart feature,<br>but with rough<br>threshold steps -<br>1/3 of max current | YES<br>configurable delay and<br>auto restart feature,<br>but with rough<br>threshold steps -<br>1/5 of max current | YES<br>configurable delay and<br>auto restart feature,<br>but with rough<br>threshold steps -<br>1/3 of max current | YES<br>configurable delay and<br>auto restart feature,<br>but with rough<br>threshold steps -<br>1/5 of max current | YES<br>configurable delay and<br>auto restart feature,<br>but with rough<br>threshold steps -<br>1/3 of max current |
| Reverse voltage protection      |       | YES   | YES   | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used                | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used  | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used  | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used  | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used  | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used  | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used  | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used  | Diode in reverse,<br>safe<br>ONLY IF<br>circuit breaker<br>is used  |
| Thermal protection              |       | YES<br>120°C  | YES<br>120°C  | YES<br>80°C   | YES<br>80°C  | (2)YES<br>max 70°C  | (2)YES<br>max 70°C  | (2)YES<br>max 70°C  | (2)YES<br>max 70°C  | (2)YES<br>max 80°C  | (2)YES<br>max 80°C  | (2)YES<br>max 80°C  | (2)YES<br>max 80°C  |
| Overvoltage protection          |       | YES<br>max 40V  | YES<br>max 70V  | 32V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used                   | 64V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used    | 32V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used   | 64V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used   | 32V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used   | 64V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used   | 32V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used   | 64V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used   | 32V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used   | 64V TVS Diode,<br>safe<br>ONLY IF<br>circuit breaker<br>is used   |

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 temperaturae working range.