

# String combiner Box- SCB

## Info-sheet

compiled by

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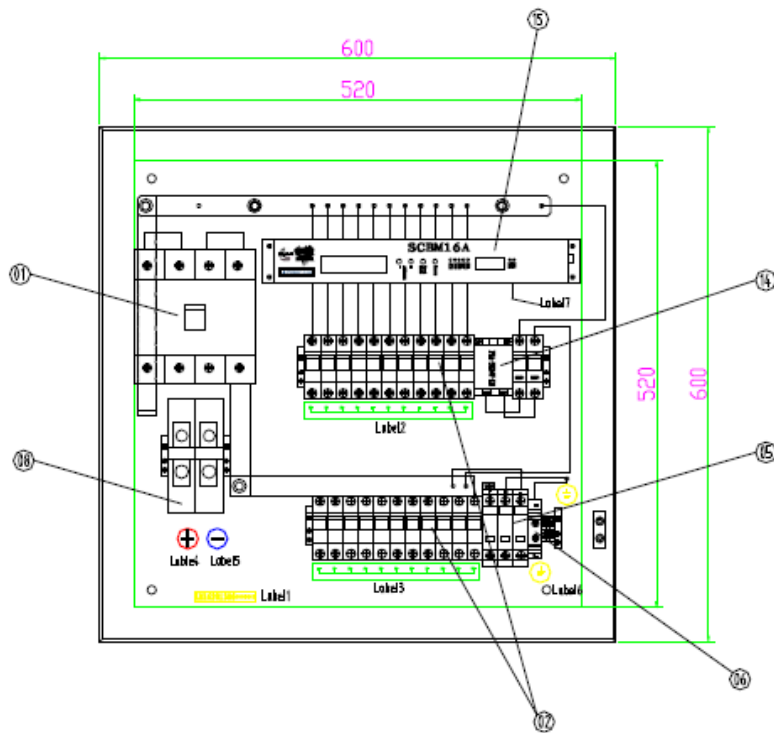


# Examples of applications

- 200kWp system Wattville, 12 string SCB
- 120kWp system, DALPARK 11 string SCB
- 2 x 20kWp traffic systems 8 string SCB
- 1MWp/2014 on order 30 SCB
- special purpose projects 12kWp, 45kWp Northern Cape
- Residential applications 2kWp-24kWp Gauteng, KZN, Northern Cape







Intelligent PV Combiner Box BOM

Item	Name	Model	Number	Note
01	Breaker	EX9MD2B 160A 4P4T	1	
02	Fuse Holder	WSI 25/1 1KV	24	
03	Fuse	PV-12A10F	22	
04	Fuse	PV-2A10F	2	
05	SPD	PU II 3P 40KA/1000VDC	1	
06	Ground terminal	EK35/35	1	
07	Fasten	WEW 35/2	6	
08	Connecting terminal	wFF 70	2	DC output
09	Connecting terminal	SAKDU 2.5	2	RS485
10	Terminal plate	SAKAP 2.5-4	1	RS485
11	RS485 ground terminal	SAKPE 2.5	1	RS485
12	Insulator	30x35-M8	2	
13	Insulator	28x19-M4	4	
14	DC-DC Converter	PV15-27B24A4	1	
15	Monitoring device	SCBM16A-11	1	
16	Insulation cover		1	Positive
17	Insulation cover		1	Negative



# Additional Features

- Positive and Negative PV string protection options (UK, USA or EU Standard)
- DC shunt on all String combiner Boxes for immediate DC isolation
- AC and C combiner boxes produced 4string to 16 string combinations, up to 1000VDC
- On board string monitoring option SCB34 unit for up to 16 strings measuring primary and derived parameters.
- RS232, modbus, RS485 compatible solar log SCB34 unit with communication ports
- 24VDC supply provided optional for auxiliaries
- All boxes grounded + or – as required

# Additional Features

- Compliant with IEC 60947-2; SANS 60947-2/  
SABS 156 EN 60898-1; NF C 61-410 breaking capacity: SANS/IEC 60947-2, IEC 60898
- Wired in accordance with BS-EN 6170-1 *where applicable*
- Optional Surge Protection Device on DC @ strong provided
- IP66 powder coated housing enclosure with lockable door- GRP/HDPE option available
- Use only approved OEM control gear suppliers including BUSSMANN, ABB, NOAK, WEIDERMULLER
- Only Solar PV Dc fast blow breakers and DC control gear including shunts used in DC a side (beware of AC contacters for DC application)
- All SCB come with line diagrams as AS\_BUILT\_DRAWINGS
- PV String labelling on mounting plates includes  $S_n$

# AfterSales Service

- ZRW Mechanika full technical service centre for SCB string monitoring unit including software programming done in South Africa.
- Backup spares available
- Standard 2yr guarantee can be extended to 5 years option.
- Offering string control gear design and specification services through appropriate BoM.
- Optional SCB commissioning and final test & inspection offered, if required.
- 3-6 week delivery time from order depending on SCB required
- Over 42 sold/ installed in South Africa and over 241 worldwide 2012/13
- Safe-travel packaging of all units in foam
- All units tested prior to shipment
- For enquiries, Contact K Parker @  
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