

05 - SITA 11kV Main Board Switchgear Datasheet – Battery Tripping Unit Requirements



Specification: 11KV Switchgear

Date: 29/01/2026

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Note (1): Bidder must complete/enter YELLOW cells only

Note (2): SITA reserves the right to verify Data Sheet information

ITEM	DESCRIPTION	UNIT	REQUIRED
1	General information		
1,01	Original Equipment Manufacturer		
1,02	Country of origin		
1,03	Place of Factory - Factory Acceptance Testing		
1,04	Time required for detail design (in weeks)	Weeks	
1,05	Time required for client FAT (in weeks)	Weeks	
1,06	Time until Ex Works (in weeks)	Weeks	
1,07	Shipping and transport time (in weeks)	Weeks	
1,08	Applicable standard		IEC 60077
2	Environmental conditions		
2,01	Installation (indoor or outdoor)	Indoor	Indoor
2,02	Altitude	<1000m	<1000m
2,03	Ambient temperature	45°C	45°C
2,04	General type of environment	Indoors	Indoors
2,05	Pollution severity	Light	Light
3	Technical requirements		
3,01	Number of dual units required		1
3,02	Number of single units required		0
3,03	Input Voltage	V	230V ± 10%
3,04	Frequency	Hz	50Hz ± 5%
3,05	Output Voltage	V	110V DC ± 1%
3,06	Auto Float/Boost charge		Yes
3,07	Cycling Charge-Discharge		Yes

3,08	Charging Rate		Discharged to 100% in 10 hours
3,09	Charging Rate Ammeter		Yes
3,10	Battery Current Ammeter		Yes
3,11	DC Voltmeter		Yes
3,12	AC Input Protection		Circuit Breaker
3,13	Battery Circuit Switch		Circuit Breaker
3,14	Load Switch		Isolator
3,15	Charger Switch		Isolator
3,16	Mains On Indication Lamp		LED
3,17	Float/auto/boost select switch		Required
3,18	Float/auto/boost lamps		Neon
3,19	Float Charge Rheostat/Setting		Yes
3,20	Boost Charge Rheostat/Setting		Yes
3,21	Earth Ind Voltmeter and switch		Yes
3,22	Boost Timer		1 to 24 hours
3,23	Battery Accessory Set		List Required
3,24	Current Limiting		Yes
3,25	Mounting Wall/Floor		Floor
3,26	Finish: Colour Name & BS381C Ref No		RAL 6019 – Pastel Green
3,27	Powder Coated		Yes
3,28	Surge Protection on Incoming Supply		Required

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3,28	Alarms:		
3.26.1	Charge Failure		Detect 75% min float charge
3.26.2	Mains Failure		Yes
3.26.3	High DC Voltage Shutdown		Yes
3.26.4	Earth Fault +		Ve to earth
3.26.5	Earth Fault -		Ve to earth
3.26.6	Low DC V Alarm		Ve to earth
3,27	Batteries:		
3.30.1	Type		NiCad, Maintenance Free
3.30.2	Number of Cells		
3.30.3	Float Voltage per Cell		
3.30.4	Boost Volts per Cell		
3.30.5	Ripple Volts		% of float V
3.30.6	Ripple Current		% of Capacity
3.30.7	Life Expectancy		26 Years
3.30.8	Capacity		Ampere Hours
3.30.9	Normal Operating Load		A min
3.30.10	Peak Operating Load		A min
3,31	Total mass		
3,32	Dimensions - overall height		
3,33	Dimensions - overall length		
3,34	Dimensions - overall width		
3,35	QC and Tests		As Specified

SITA CENTURION 11kV MAIN BOARD			
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Switchgear Datasheet - BTU Requirements			
ITEM	DESCRIPTION	UNIT	REQUIRED/OFFERED
4	Factory Acceptance Testing		
4,01	Point to Point - Use Approved Schematic		Yes
4,02	Check equipment against approved component list		Yes
4,03	Visual Checks		Yes
4,04	Functional Checks		Yes
4.04.1	Output relays		Yes
4.04.2	Digital Inputs		Yes
4.04.3	Meter readings		Yes
4.04.4	Indications		Yes
4.04.5	Analogue Sensing Circuits		Yes
4.04.6	DC Polarities correct and within specified range		Yes
4,05	Check Manufacturer Internal QC documentation		Yes
4,06	Rating plate information correct		Yes
4,07	Earthing complete to chassis		Yes
4,08	User Manuals available and complete		Yes
5	Site Acceptance Testing		
5,01	Verify that installation is complete		Yes
5,02	Check paint, no damage during transport or installation		Yes
5,03	Check all analogue values- within specified range		Yes
5,04	Functional Checks		Yes
5,05	Verify all Alarms to SCADA		Yes
5,06	Verify correct Float and Boost Voltage Settings		Yes
5,07	Verify that installation is complete		Yes
5,08	Verify Battery Accessories/Maintenance Tools		Yes
6	Documentation		

6,01	Approved Wiring Diagrams		To be Supplied
6,02	Approved BTU and Battery Cabinets GA drawings		To be Supplied
6,03	Operating Manuals		To be Supplied
6,04	Type Test Certificates		To be Supplied
6,05	FAT report		To be Supplied
6,06	SPIR lists		To be Supplied
I, the bidder, confirm that the details provided in this data sheet are true and accurate. I further accept that all goods and/or works will be delivered as specified herein. [Note (1): SITA reserves the right to verify Data Sheet information] [Note (2): First convert to PDF, then add signature]			
		Bidder's Name	
		Signature (above)	