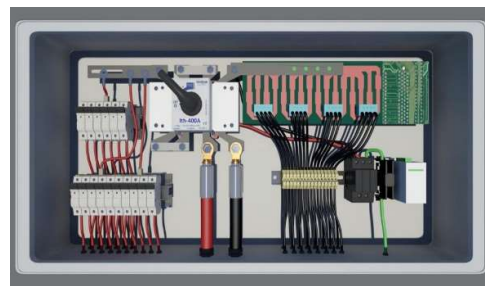




STRING MONITORING BOX

The Sertel String-Monitoring box is a PV array junction box in which several strings can be connected in parallel. The String-Monitoring box collects, measures and monitors the input currents of the strings, assists in detecting failures, thus helping to minimize power and yield losses. The measured values are transmitted from the String-Monitor via Ethernet or wireless communication to the next String-Monitor in the communication bus up to the inverter.



TECHNICAL DATA

ENCLOSURE		INPUT	
MATERIAL	POLYCARBONATE / POLYESTER	CABLE ENTRY	BOTTOM
DEGREE OF PROTECTION	IP 65	NO.OF DC INPUT (+Ve & -Ve)	MC4 TYPE CONNECTORS
UV RESISTANCE	YES	INPUT DC CABLE TERMINATION	PIN TYPE TERMINATION / MC4 FIELD CONNECTORS
LOCKING ARRANGEMENT	HING & LATCH	FUSES	OPTIONAL UPTO 30A (10/12/15/20/25/30)
MOUNTING TYPE	WALL MOUNT / STRUCTURE MOUNT	EARTH CABLE CONNECTION	EARTH TERMINAL UPTO 16SQMM
ELECTRICAL PARAMETER		EARTH CABLE ENTRANCE	IP68 POLYAMIDE CABLE GLAND
RATED DC VOLTAGE	1000V	MOINTORING DEVICE POWER SOURCE	AUXILIARY POWER SUPPLY / IN BUILT (DC-DC CONVERTER)
MAXIMUM CURRENT PER STRING	OPTIONAL UPTO 20A	OUTPUT	
MEASUREMENT VOLTAGE SUPPLY	24V DC	NO.OF DC OUTPUTS (+Ve and -Ve)	1
DC SWITCH RATING	250 / 315 / 400A	DC OUTPUT CABLE SIZE	UPTO 300 SQMM
SURGE PROTECTION DEVICE		DC OUTPUT CABLE EXIT	IP68 POLYAMIDE GLAND
1000V DC POWER SPD	YES	OUTPUT CABLE TERMINATION	BOLT TYPE
MODBUS SPD	YES	INTERFACE CONNECTION RS 485 CABLE	RS 485 STANDARD
		RS 485 CABLE IN/OUT	IP 68 POLYAMIDE CABLE GLAND
		SWITCH ON/OFF STATUS	AVAILABLE (OPTIONAL)
		SPD ON/OFF STATUS	AVAILABLE (OPTIONAL)
		MONITORING DEVICE	
		MEASURING PARAMETERS	INPUT CURRENT, SYSTEM VOLTAGE, INTERNAL TEMPERATURE
		INPUT CURRENT MONITORING	EACH STRING
		VOLTAGE MEASUREMENT ACCURACY	(+/-) 0.25%
		CURRENT MEASUREMENT ACCURACY	(+/-) 0.25%
		POWER CONBSUMPTIONS	<3W
		ON- BOARD TEMPERATURE MEASURING RANGE	0-100°C
		SHIELD CLAMP FOR EARTHING PROVIDED	YES
		COMMUNICATION INTERFACE	MODBUS RS 485
		OPERATING TEMPERATURE	(-10) TO 70°C
SERTEL MONITORING BOX TEST STANDARDS			
TEST STANDARDS		EN 61439-2:2011	



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