

Smart Communication Box (SAU)

Item	Specification	Remarks
Model	SAU-1000-A	
Communication		
RS485 interface	4 Nos (12 devices per RS485)	
PLC Interface	2 Nos(30 devices per PLC)	
Ethernet	4 * RJ45, 10 / 100 Mbps	
Fiber Switch	2 Fiber ports	
Fiber Splice Box	2-Input and 2-Output	
PLC Communication		
Max. communication distance	600m	
Max. number of each channel devices	≤30 inverters	
Max. communication delay time	≤0.8s	
Rated voltage	400 ~ 880 Vac	
Max. withstands voltage	≤1000 Vac	
Power Supply		
AC input UPS	220 VAC, 50 / 60 Hz	
Power consumption	<300W	
Ambient conditions		
Operating Temperature	-40 °C to 60 °C	
Storage Temperature	-40 °C to 70 °C	
Relative air humidity	≤95 % (non-condensing)	
Elevation	≤5000 m	
Protection class	IP65	
Mechanical parameters		
Dimensions (W * H * D)	750*225 * 810 mm	
Weight	<25 kg	
Mounting type	Rack-mounted, Wall mounting,outdoor	
Box material	Metal	
Cable specification	AC cable: cable Size of 6~10 mm²; PLCC cable: cable of 10 mm² Fiber optic cable:amored optical fiber RS485 cable: shielded twisted pair (STP) of 0.75~1mm²	
Mechanical parameters		
SAU-1000A	The SAU 1000A includes core control board,DI/DO board AC adapter, PLC, FO Ring Networking switch managed type/RSTP,SPF Port, Fiber Splicing BOX, SPD, MCCB, etc	

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Item	Specification	Remarks
Communication mode of inverter	PLCC	
Transformer type	Double split	
PID protection	Anti-PID in TCMC box	
PID repair	PID recovery module is integrated in inverter	
IV curve intelligent scanning needed	Supported	
photovoltaic area monitoring system required	NA	
	Configuration of communication box / cabinet	
Number of communication boxes / cabinets	The ring net includes 8 nos communication boxes (SAU)	
Networking mode of communication box / cabinet optical fiber ring network	Ring network by Communication Panel inbuilt There is a ring net switch in communication box (SAU)	
(DI, DO)Description of additional dry contacts of equipment (DI, do)	DI - 4nos., DO - 4 nos.	
Analog input and output (4-20mA)	NA	
Power supply of communication box / cabinet	Powered by communication box inner circuit with 220VAC External UPS	
the protocols between communication box and SCADA and PPC	MODBUS TCP/IEC 104	
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Is space reserved for other equipment installation	NA	