

## SYSTEM FUNCTION



Solar energy preferably used by domestic appliances, and additional Energy is stored in battery.



During the day, when battery is fully charged, the additional energy produced by solar can be sold and fed into the public



At evening, the energy stored in the battery supplies electricity to the domestic appliances.



At night, when the energy stored in the battery is depleted, the public grid supplies energy to the domestic appliances.



**PRODUCT**  
**PARAMETER**



Models	SDA10-48100 (15S)	SDA10-48100 (16S)
Nominal voltage (Vdc)	48	51.2
Battery capacity (Ah)	100	100
Nominal capacity (kWh)	4.80	5.12
Depth of discharge	80%	
Usable capacity (kWh)	3.84	4.10
Cycle life	>= 6000 @ 25°C	
Charge voltage (Vdc)	53.2 to 54.0	56.4 to 57.6
Discharge voltage (Vdc)	45.0 to 50.0	48.0 to 53.0
Max parallel quantity	16pcs	
Charge/discharge current (A)	100	100
Communication ports	CAN/RS485	
Weight (kg)	Approx. 38	Approx. 40
Dimensions (W*H*D) mm	442*133*440	
Operation temp. (°C)	Charge: -5 to +45; Discharge: -20 to +50	
Recommend operation temp. (°C)	Charge/discharge: +15 to +35; storage: -20 to +35	
Humidity (%)	5 to 95	
Altitude (m)	<=4000	
Compatible inverters	SMA, Victron Energy, Studer, Growatt (SPF), Goodwe, Deye, Sofar, Megarevo, Luxpower, TBB, Solis, etc.	

**48V Module (BMS Integrated)**