

## **SC30-50K Series**

### Smart String Controller

## **Product Introduction**

AdvanSol SC30-50K series Smart String Controller is primarily used to convert the DC current into the AC current safely and stably, and monitor the safe operation of the entire solar system. The string controller can work with O series micro controller to achieve optimized module-level output and then enable the entire system to perform at full capacity.

In the event of an emergency or overhaul, the string controller can reduce the output voltage of the solar string within a safe voltage range.

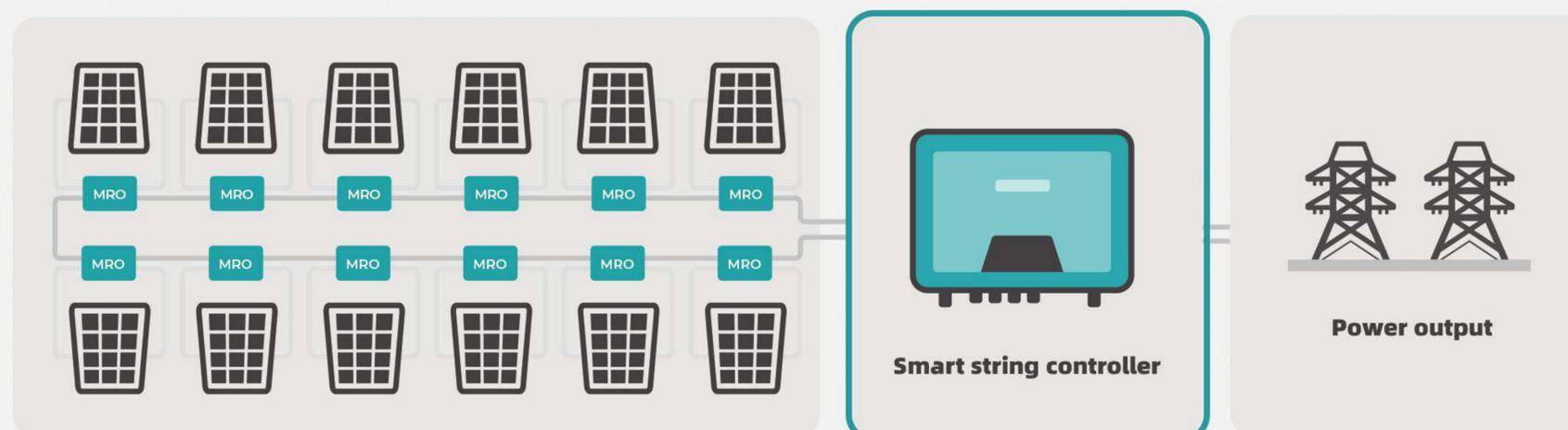


The string controller is installed in the same way as the traditional string inverter. It is easy and convenient



The string controller can work with the O series micro controller to realize refined module-level system regulation

Technical Parameters	APT-SC30K	APT-SC40K	APT-SC50K
<b>DC Input</b>			
Max.String Input Power	49500W	60000W	65000W
Max.Input Voltage		1100V	
MPPT Voltage Range		150V-1000V	
Full Load MPPT Voltage Range	330V-900V	430V-900V	500V-900V
Min.DC Voltage		150V / 180V	
Nominal DC Input Voltage		620V	
Max.Input Current		30A	
Max.DC Short-Circuit Current		45A	
Number of MPPTs	3	4	4
Number of MPPT Strings Per Channel	2	2	2
<b>AC Output</b>			
Rated Output Power	30000W	40000W	50000W
Max.Apparent Power	33000VA	44000VA	55000VA
Rated Grid Voltage/Vac		380 / 4003 / 3LN-PEOR3 / 3L-PE	
Rated Grid Frequency		50Hz / 60Hz	
Max.Output Current	50A	66.7A	80A
Power Factor Range		0.8Lead-0.8Lag	
THDi at Rated Power		< 3%	
<b>Efficiency</b>			
Max.Efficiency	98.7%	98.8%	98.8%
Europe Efficiency	98.3%	98.4%	98.4%
<b>Protection Funtion</b>			
Anti-Islanding		Integrated	
DC Reverse Connection Protection		Integrated	
Insulation Resistance Detection		Integrated	
Leakage Current Detection		Integrated	
Output Overcurrent Protection		Integrated	
Output Short-circuit Protection		Integrated	
Overvoltage Protection		DC: Grade II; AC : Grade III	
Surge Protection		DC: Grade II; AC : Grade II	
<b>General Parameters</b>			
Dimensions(L x W x D)		580 x 435 x 242 mm	
Weight	38KG	40KG	40KG
Display Interface		LCD&LED or LED	
DC Connection Type		MC4 (D4, SUNCUX, H4 Optional)	
AC Connection Type		Plug and Play Terminal	
Communication Method		RS485 / Wi-Fi / GPRS (Optional)	
Cooling Mode		Smart Fan Cooling	
Operating Ambient Temperature Range		-25°C to +60°C	
Relative Humidity		0%-100%	
Highest Altitude		2000m (Greater than 2000 Load Reduction)	
Protection Rating		IP65	
Climatic Category		4K4H	
Topology Structure		No Transformer	
Self-Consumption at Night		< 1W	



**ACLOUD**  
Module-level monitoring

**RSD**  
Module-level rapid shutdown

**Module-level optimization**