

SCA30~40K-T-EU

Three-Phase String Inverter

30~40kW • 3/4 MPPTs • 1100Vdc System



Efficient

Appealing yield

- 3/4 MPPTs with Max. Efficiency 98.59%
- Easily compatible with various PV modules based on max. input current 15A per string
- 150% DC/AC ratio
- Lower startup & wider MPPT voltage

Smart

Pragmatic option

- Communication interfaces [RS485/Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter

Safe

Solid quality

- Durable and robust component
- IP66 & C5 protection
- Type II SPD for both DC and AC

Model Name	SCA30K-T-EU	SCA37.5K-T-EU ¹	SCA40K-T-EU
DC Input			
Max. DC Voltage	1100Vdc		
MPPT Operating Voltage Range	200 - 1000Vdc		
Start Voltage	250Vdc		
Rated DC Voltage	615Vdc		
Number of MPPT	3	4	4
Number of DC Connection Sets per MPPT	2	2	2
Max. input current per MPPT	30A		
Max. DC short-circuit current per MPPT	45A		
String Fuse	/		
DC Disconnection Type	Integrated Switch		
AC Output			
Rated AC Power	30kW	37.5kW	40kW
Max. AC Power	33kVA	41.3kVA	44kVA
Rated AC Voltage	380 / 400V		
AC Voltage Range	270 - 540V		
Grid Connection Type	3Φ / N / PE		
Max. AC Current	50A	62.5A	66.7A
Grid Frequency	50 / 60Hz		
Grid Frequency Range	45-55 / 55-65Hz		
Power Factor (cosφ)	>0.99(±0.8 adjustable)		
Current THD	< 3%		
AC Disconnection Type	/		
System Data			
Topology	Transformerless		
Max. Efficiency	98.15%	98.59%	98.45%
Euro Efficiency	98.00%		
Consumption at Night	<1W		
Protection			
DC reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
Ground fault monitoring	Yes		
Surge Protection	DC Type II / AC Type II		
AFCI	/		
Environment Data			
Ingress Protection	IP66		
Cooling Method	Natural Convection		
Operating Temperature	-25°C to +60°C		
Ambient Humidity	0 - 100%		
Altitude	4000m		
Display and Communication			
Display	LED + APP(Bluetooth)		
Communication	RS485 / Wi-Fi (Standard) & 4G (Optional)		
Mechanical Data			
Dimensions (W*H*D)	684 * 488 * 269mm		
Weight	30kg	35kg	35kg
DC Connection Type	MC4 (Max. 6 mm ²)		
AC Connection Type	OT/DT Terminal (Max.35 mm ²)		

¹ "AC Voltage Range" and "Grid Frequency Range" may be differ according to specific grid codes.
² The certificates are for reference only. Please consult the local sales staff for detailed certification.
³ AC Power is different under different rated AC voltage.
⁴ Transformer compatibility: this model only supports connection with IT systems, not compatible with TN/TT systems.