

ARES

AR5KTSI / AR6KTSI / AR8KTSI AR10KTSI / AR13KTSI / AR16KTSI (Three-Phase)

- Compact and contemporary design
- Unmatched power density
- Highest efficiency in the industry (max. 98.65%)
- Fuseless and fanless design
- Industrial-grade high quality components
- All-round lightning protection
- IP65 waterproof and dustproof
- Smart connected



MODEL	AR5KTSI	AR6KTSI	AR8KTSI	AR10KTSI	AR13KTSI	AR16KTSI
INPUT (DC)						
Max. input power	6.5 kW	7.8 kW	10.4 kW	13 kW	16.9 kW	20.8 kW
Max. input voltage	1000 V					
Start-up voltage	180 V				250 V	
MPPT voltage range	120 – 950 V			200 – 950 V		
MPPT voltage range at full load	250 – 850 V	280 – 850 V	380 – 850 V	470 – 850 V	410 – 850 V	500 – 850 V
Max. input current	11 A / 11 A				11 × 2 A / 11 A	
Max. short circuit current	12 A / 12 A				12 × 2 A / 12 A	
Number of MPPTs	2					
Number of DC inputs	A:1 / B:1				A:2 / B:1	
OUTPUT (AC)						
Rated output power	5 kW	6 kW	8 kW	10 kW	13 kW	16 kW
Max. active power	5 kW	6 kW	8 kW	10 kW	13 kW	16 kW
Max. apparent power	5 kVA	6 kVA	8 kVA	10 kVA	13 kVA	16 kVA
Max. output current	7.3 A	8.7 A	11.6 A	14.5 A	18.9 A	23.2 A
Rated grid voltage	230 / 400 V, 3 W + N + PE					
Grid voltage range	176 – 276 V / 304 – 480 V *					
Rated grid frequency	50 / 60 Hz					
Grid frequency range	45 – 55 / 55 – 65 Hz *					
THD	< 3% (rated power)					
Output current DC component	< 0.5% I _n					
Power factor	> 0.99 (rated power)					
Power factor adjustable	0.8 leading ~ 0.8 lagging					
EFFICIENCY						
Max. efficiency	98.65%					
European efficiency	98.2%					
OTHERS						
Protections	Anti-islanding protection, output overcurrent/overvoltage protection, leakage current protection, DC reverse polarity protection, DC/AC surge protection, ground insulation resistance detection, DC switch (standard), PID prevention and restoration (optional)					
Communications	RS485, Wi-Fi/Ethernet (optional), GPRS (optional)					
Display	LED, Bluetooth (optional)					
Self-consumption at night	< 1 W					
IP rating	IP 65					
Cooling	Natural cooling					
Isolation	Transformerless					
Standards	IEC/EN 62109-1, IEC/EN 62109-2, VDE AR-N-4105, AS/NZS 4777.2, CEI 0-21, EN 50438, IEC 61683, IEC 61727, IEC 62116, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4					
Operating temperature	-25°C ~ +60°C (> 45°C downgrading)					
Relative humidity	0 ~ 100% (non-condensing)					
Altitude	2000 m					
Dimensions (W × D × H) (mm)	515 × 166.5 × 435					
Packaged dimensions (W × D × H) (mm)	605 × 536 × 245					
Weight (kg)	25					
Gross weight (kg)	28					

* The AC voltage and frequency range may vary depending on specific country grid.

Disclaimer:

- These data in this document are tested under specified conditions. It may result in difference between actual results and these data due to some uncertain factors. The statement about this product is for reference only. It makes no representation or warranty.
- All specifications are subject to change without notice.