

R5-3K/4K/5K/6K/8K/9K/10K/12K-T2



Lightning protection
High precision leakage monitoring



Low standby consumption
High efficiency, high yield



APP connection
All data at real time



Remote maintenance
Remote configuration



Quiet generation
No noise pollution



Intelligent & grid-friendly
Active response to grid dispatch

Technical Data



R5 Three Phase 2MPPT

Model	R5-3K-T2	R5-4K-T2	R5-5K-T2	R5-6K-T2	R5-8K-T2	R5-9K-T2	R5-10K-T2	R5-12K-T2
Input (DC)								
Max.PV Array Power [Wp]@STC	4500	6000	7500	9000	12000	13500	15000	15600
Max. DC Voltage [V]	1100							
MPPT Voltage Range [V]	160-950							
Nominal DC Voltage[V]	600							
Start Voltage [V]	180							
Min. DC Voltage [V]	150							
Max. DC Input Current [A]	12.5/12.5							
Number of DC Connection Sets per MPPT	1/1							
Number of MPPT	2							
DC Switch	Integrated							
Output (AC)								
Rated AC Power [W]	3000	4000	5000	6000	8000	9000	10000	12000
Max. AC Power*1 [VA]	3300	4400	5500	6600	8800	9900	11000	12000
Rated AC Current [A]@230Vac	4.4	5.8	7.3	8.7	11.6	13.1	14.5	17.4
Max. AC Current [A]	5.0	6.7	8.4	10.0	13.4	15.0	16.7	18.2
Nominal AC Voltage/ Range [V]	220/380, 230/400, 240/415; 180-280/312-485							
Grid Frequency/ Range [Hz]	50, 60/45-55, 55-65							
Power Factor [cos φ]	0.8 leading~0.8 lagging							
Total Harmonic Distortion [THDi]	<2%(at nominal power)							
Feed-in	3L+N+PE							
Efficiency								
Max. Efficiency	98.0%	98.3%	98.3%	98.3%	98.6%	98.6%	98.6%	98.6%
Euro Efficiency	97.6%	98.0%	98.0%	98.0%	98.2%	98.2%	98.3%	98.3%
MPPT Accuracy	> 99.5%							
Protection								
Internal Over-voltage Protection	Integrated							
DC Insulation Monitoring	Integrated							
DC Surge Protection	Integrated							
Grid Monitoring	Integrated							
AC Short Circuit Current Protection	Integrated							
AC Grounding Detection	Integrated							
GFCI Monitoring	Integrated							
DCI Monitoring	Integrated							
AC Surge Protection	Integrated							
Thermal Protection	Integrated							
Anti-island protection monitoring	AFD							
Interface								
DC Connection	MC4							
AC Connection	Plug-in connector							
Human Machine Interface	LED+(bluetooth/Wi-Fi+APP)							
Communication Port	RS232(USB joints)+RS485(RJ45 crystal joints)							
Communication	Wi-Fi/GPRS/4G(Optional)							
General Data								
Topology	Transformerless							
Consumption at Night [W]	<0.6							
Consumption at Standby [W]	<10							
Operating Temperature Range	-40°C to +60°C (running in reduced load condition when the temperature is above 45°C)							
Cooling Method	Natural Convection							
Ambient Humidity	0-100% Non-condensing							
Altitude	4000m (>3000m power derating)							
Noise [dBA]	<29							
Ingress Protection	IP65							
Mounting	Rear Panel							
Dimensions [H*W*D][mm]	429*418*177							
Weight [kg]	19							
Standard Warranty [Year]	5 (standard)/10/15/20/25 (Optional)							
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, CEI 0-16, NBR 16149, NBR 16150, G98, G99							

Remarks:*1According to C10/C11, Max. AC Power = Rated AC Power

R5-13K/15K/17K/20K-T2

SAJ



Lightning protection
High precision leakage monitoring



Low standby consumption
High efficiency, high yield



APP connection
All data at real time



Remote maintenance
Remote configuration



Quiet generation
No noise pollution



Intelligent & Grid-friendly
Active response to grid dispatch

Technical Data



R5 Three Phase 2MPPT

Model	R5-13K-T2	R5-15K-T2	R5-17K-T2	R5-20K-T2
Input (DC)				
Max.PV Array Power [Wp]@STC	19500	22500	25500	30000
Max. DC Voltage [V]	1100			
MPPT Voltage Range [V]	160-950		180-950	
Nominal DC Voltage[V]	600			
Start Voltage [V]	180		200	
Min. DC Voltage [V]	160		180	
Max. DC Input Current [A]	25/12.5		25/25	
Number of DC Connection Sets per MPPT	2/1		2/2	
Number of MPPT	2			
DC Switch	Integrated			
Output (AC)				
Rated AC Power [W]	13000	15000	17000	20000
Max. AC Power*1 [VA]	14300	16500	18700	22000
Rated AC Current [A]@230Vac	18.9	21.8	24.7	29.0
Max. AC Current [A]	21.7	25.0	28.4	33.4
Nominal AC Voltage/ Range [V]	220/380, 230/400, 240/415; 180-280/312-485			
Grid Frequency/ Range [Hz]	50, 60/45-55, 55-65			
Power Factor [cos φ]	0.8 leading~0.8 lagging			
Total Harmonic Distortion [THDi]	<2%(at nominal power)			
Feed-in	3L+N+PE			
Efficiency				
Max. Efficiency	98.7%	98.7%	98.8%	98.8%
Euro Efficiency	98.4%	98.4%	98.46%	98.46%
MPPT Accuracy	> 99.5%			
Protection				
Internal Over-voltage Protection	Integrated			
DC Insulation Monitoring	Integrated			
DC Surge Protection	Integrated			
Grid Monitoring	Integrated			
AC Short Circuit Current Protection	Integrated			
AC Grounding Detection	Integrated			
GFCI Monitoring	Integrated			
DCI Monitoring	Integrated			
AC Surge Protection	Integrated			
Thermal Protection	Integrated			
Anti-island protection monitoring	AFD			
Interface				
DC Connection	MC4			
AC Connection	Terminal Block			
Human Machine Interface	LED+(bluetooth/Wi-Fi+APP)			
Communication Port	RS232(USB joints)+RS485(RJ45 crystal joints)			
Communication	Wi-Fi/GPRS/4G(Optional)			
General Data				
Topology	Transformerless			
Consumption at Night [W]	<0.6			
Consumption at Standby [W]	<10			
Operating Temperature Range	-40°C to +60°C (running in reduced load condition when the temperature is above 45°C)			
Cooling Method	Natural Convection			
Ambient Humidity	0-100% Non-condensing			
Altitude	4000m (>3000m power derating)			
Noise [dBA]	<29			
Ingress Protection	IP65			
Mounting	Rear Panel			
Dimensions [H*W*D][mm]	480*440*200		530*490*210	
Weight [kg]	26		29	
Standard Warranty [Year]	5 (standard)/10/15/20/25 (Optional)			
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, CEI 0-16, NBR 16149, NBR 16150, G98, G99			

Remarks:^{*1} According to C10/C11, Max. AC Power = Rated AC Power