

# R5-13K/15K/17K/20K-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	R5-13K-T2	R5-15K-T2	R5-17K-T2	R5-20K-T2
<b>Input (DC)</b>				
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			
<b>Output (AC)</b>				
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			
<b>Efficiency</b>				
Max. Efficiency	98.7%	98.7%	98.8%	98.8%
Euro Efficiency	98.4%	98.4%	98.46%	98.46%
MPPT Accuracy	> 99.5%			
<b>Protection</b>				
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			
<b>Interface</b>				
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)			
<b>General Data</b>				
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