




# R6 SERIES SINGLE PHASE INVERTER




R6-5K-S3 | R6-6K-S3 | R6-8K-S3  
R6-9.9K-S3 | R6-10K-S3-A | R6-10K-S3

**AFCI** AFCI (Optional)

**16A** String current up to 16A

 Max. efficiency 98.2%

 Built-in AC & DC SPD

**3 MPP** Max. 3 MPP trackers

 Safety & reliability



MODEL	R6-5K-S3	R6-6K-S3	R6-8K-S3	R6-9.9K-S3	R6-10K-S3-A	R6-10K-S3
<b>DC Input</b>						
Max. PV Array Power [Wp]@STC	7500	9000	12000	15000	15000	15000
Max. DC Voltage [V]	600					
MPPT Voltage Range [V]	90 ~ 550					
Rated DC Voltage [V]	360					
Start Voltage [V]	100					
Min. DC Voltage [V]	80					
Max. DC Input Current [A]	16/16/16					
Max. DC Short Circuit Current [A]	19.2/19.2/19.2					
No. of Strings per MPPT	1/1/1					
No. of MPPT	3					
Overvoltage Category(OVC)	II					
DC Switch	Integrated					
<b>AC Output</b>						
Rated AC Power [W]	4999	6000	8000	9999	9999	10000
Rated Apparent Power [VA]	4999	6000	8000	9999	9999	10000
Max. Apparent Power [VA]	4999	6600	8800	9999	9999	10000
Rated AC Output Current [A]	21.7	26.1	34.8	43.5	43.5	43.5
Max. AC Current [A]	21.7	28.7	38.3	43.5	43.5	43.5
Current Inrush [A]	30					
Max. AC Fault Current [A]	65					100
Max. AC Over Current Protection [A]	53					76
Rated AC Voltage/Range [V]	L+N+PE, 220, 230, 240; 180 ~ 280					
Rated Output Frequency/Range [Hz]	50, 60 / 44-55, 54-65					
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging					
Total Harmonic Distortion [THDi]	<3%					
Overvoltage Category(OVC)	III					
<b>Efficiency</b>						
Max. Efficiency	98.2%					
Euro Efficiency	98.7%					
<b>Protection</b>						
Overvoltage Protection	Integrated					
DC Insulation Resistance Detection	Integrated					
Grid Monitoring	Integrated					
GFCI Monitoring	Integrated					
DCI Monitoring	Integrated					
AC Short Circuit Current Protection	Integrated					
AC Grounding Detection	Integrated					
DC Surge Protection	Type II					
AC Surge Protection	Type III (type II optional)					
Overheat Protection	Integrated					
Anti-islanding Protection	AFD					
AFCI Protection	Optional					
<b>Interface</b>						
DC Connection	D4/MC4 (Optional)					
AC Connection	Quick connector					
Display	LED+APP					
Communication Port	RS232+RJ45+DRM					
Communication	Wi-Fi/Ethernet/4G/PLC (Optional)					
<b>General Parameters</b>						
Topology	Non-isolated					
Consumption at Night [W]	<1					
Consumption at Standby [W]	<8					
Operating Temperature Range	-40°C ~ +60°C (>45°C derating)					
Cooling Method	Natural Convection					
Ambient Humidity	0% ~ 100%					
Altitude	4000m (>3000m derating)					
Noise [dBA]	<35					
Protective Class	Class I					
Ingress Protection	IP65					
Mounting	Wall Mounting					
Dimensions [H*W*D] [mm]	391*532*202					
Weight [kg]	17.3					18
Warranty [Year]	Refer to the warranty policy					
Applicable Standard	IEC/EN62109-1/2, EN61000-6-1/2/3/4, IEC61683, IEC60068-2, IEC62116, IEC61727, EA/MEA, VDE0126-1-1/A1, CEI 0-21, VDE-AR-N 4105, AS/NZS4777.2, CQC NB/T 32004, G98/G99, NBR 16149, NBR 16150, C10/11, RD1669, UNE206006, UNE206007, EN50438					