

R5

SERIES

SINGLE PHASE



R5-0.7K-S1-15 | R5-1K-S1-15 | R5-1.5K-S1-15
R5-2K-S1-15 | R5-2.5K-S1-15 | R5-3K-S1-15



Compact and
light weight



APP connection,
all data at real time



Remote maintenance
configuration



Quiet operation,
no noise pollution



External module
with screen display



High reliability,
relay redundancy design

Model	R5-0.7K-S1-15	R5-1K-S1-15	R5-1.5K-S1-15	R5-2K-S1-15	R5-2.5K-S1-15	R5-3K-S1-15
Input (DC)						
Max. PV Array Power [Wp]@STC	1050	1500	2250	3000	3750	4500
Max. Input Voltage [V]	450			500		
MPPT Voltage Range [V]	40-425			50-450		
Nominal Input Voltage [V]	360					
Start-up Voltage [V]	40			50		
Min. Input Voltage [V]	40					
Max. Input Current [A]	15					
Max. DC Short Circuit Current [A]	18					
No. of Strings per MPPT	1					
No. of MPPT	1					
DC Switch	Integrated					
Output (AC)						
Rated AC Output Power [W]	700	1000	1500	2000	2500	3000
Rated Apparent Power ^{*1} [VA]	770	1100	1650	2200	2750	3300
Rated AC Output Current [A]@230Vac	3.1	4.4	6.6	8.7	10.9	13.1
Max. AC Output Current [A]	3.5	5.0	7.5	10	12.5	15
Nominal AC Voltage/ Range [V]	220,230,240/180-280					
Nominal AC Grid Frequency/ Range [Hz]	50,60 / 45-55,55-65					
Total Distortion Harmonic [THDi]	<2%					
Power Factor [cos ϕ]	0.8 leading~0.8 lagging					
Feed-in	L+N+PE					
Efficiency						
Max. Efficiency	97.2%	97.3%	97.4%	97.6%	97.7%	97.8%
Euro Efficiency	96.4%	96.7%	96.8%	97.0%	97.1%	97.2%
MPPT Accuracy	>99.9%					
Protection						
Internal Over-voltage Protection	Integrated					
DC Insulation Resistance Detection	Integrated					
Grid Monitoring	Integrated					
AC Short Circuit Current Protection	Integrated					
AC Grounding Detection	Integrated					
GFCI Monitoring	Integrated					
DCI Monitoring	Integrated					
DC Surge Protection	Type III					
AC Surge Protection	Type III / Type II (Optional)					
Thermal Protection	Integrated					
Anti-island Protection	AFD					
Interface						
DC Connection	MC4					
AC Connection	Plug-in Connector					
Display	LED+(Bluetooth/Wi-Fi+APP)					
Communication Port	RS232(USB)+RS485(RJ45)+DRM					
Communication	Wi-Fi/GPRS/4G(Optional)					
General Data						
Topology	Transformerless					
Consumption at Night [W]	<0.2					
Consumption at Standby [W]	6					
Operating Temperature Range	-40°C to +60°C					
Cooling Method	Natural Convection					
Ambient Humidity	0-100% Non-condensing					
Altitude	4000m (>3000m Power Derating)					
Noise [dBA]	<25					
Ingress Protection	IP65					
Mounting	Rear Panel					
Dimensions [H*W*D][mm]	302*289*142					
Weight [kg]	7.2			7.5		
Warranty [Year]	5/10/15/20/25					
Certifications	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105					

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



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
DC Input						
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					
AC Output						
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					
Efficiency						
Max. Efficiency	98.2%					
Euro Efficiency	98.7%					
Protection						
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					
Interface						
DC Connection	D4/MC4 (Optional)					
AC Connection	Quick connector					
Display	LED+APP					
Communication Port	RS232+RJ45+DRM					
Communication	Wi-Fi/Ethernet/4G/PLC (Optional)					
General Parameters						
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					

R6 SERIES

THREE PHASE INVERTER



R6-3K-T2-AUS | R6-4K-T2-AUS | R6-5K-T2-AUS
R6-6K-T2-AUS | R6-8K-T2-AUS | R6-10K-T2-AUS
R6-12K-T2-AUS | R6-15K-T2-AUS

AFCI AFCI (Optional)

16A String current
up to 16A



Max. Efficiency 98.6%



Built-in
AC & DC SPD

110% 110% AC
overloading



Safety & Reliability

MODEL	R6-3K-T2-AUS	R6-4K-T2-AUS	R6-5K-T2-AUS	R6-6K-T2-AUS	R6-8K-T2-AUS	R6-10K-T2-AUS	R6-12K-T2-AUS	R6-15K-T2-AUS
DC Input								
Max. PV Array Power [Wp]@STC	4500	6000	7500	9000	12000	15000	18000	22500
Max. DC Voltage [V]	1100							
MPPT Voltage Range [V]	160 ~ 950							
Rated DC Voltage [V]	600							
Start Voltage [V]	180							
Min. DC Voltage [V]	150							
Max. DC Input Current [A]	16/16							
Max. DC Short Circuit Current [A]	19.2/19.2							
No. of Strings per MPPT	1/1							
No. of MPPT	2							
Overtoltage Category (OVC)	II							
DC Switch	Integrated							
AC Output								
Rated AC Power [W]	3000	4000	5000	6000	8000	9999	12000	15000
Rated Apparent Power [VA]	3000	4000	5000	6000	8000	9999	12000	15000
Max. Apparent Power [VA]	3000	4000	5000	6000	8000	9999	12000	15000
Rated AC Output Current [A]	4.4	5.8	7.3	8.7	11.6	14.5	17.4	21.8
Max. AC Output Current [A]	4.4	5.8	7.3	8.7	11.6	14.5	17.4	21.8
Current Inrush [A]	60							
Max. AC Fault Current [A]	23.5				37.8		51.3	
Max. AC Over Current Protection [A]	28.4				45.4		61.5	
Rated AC Voltage/Range [V]	3+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485							
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65							
Power Factor [cos ϕ]	0.8 leading ~ 0.8 lagging							
Total Harmonic Distortion [THDi]	<3%							
Overtoltage Category (OVC)	III							
Efficiency								
Max. Efficiency	98.2%	98.5%	98.5%	98.5%	98.6%	98.6%	98.6%	98.6%
Euro Efficiency	97.8%	98.2%	98.2%	98.2%	98.3%	98.3%	98.4%	98.4%
Protection								
Overtoltage Protection	Integrated							
DC Insulation Rsistance Detection	Integrated							
Grid Monitoring	Integrated							
GFCI Monitoring	Integrated							
DCI Monitoring	Integrated							
AC Short Circuit Current Protection	Integrated							
AC Grounding Detection	Integrated							
DC Surge Protection	Integrated							
AC Surge Protection	Integrated							
overheating Protection	Integrated							
Anti-islanding Protection	AFD							
AFCI Protection	Optional							
Interface								
DC Connection	D4/MC4 (Optional)							
AC Connection	Plug-in Connector							
Display	LED+APP							
Communication Port	RS232(USB)+RS485(RJ45)+DRM							
Communication	Wi-Fi/Ethernet/4G(Optional)							
General Parameters								
Topology	Non-isolated							
Consumption at Night [W]	<1							
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)							
Cooling Method	Natural Convection							
Ambient Humidity	0-100% Non-condensing							
Altitude	4000m (>3000m Power Derating)							
Noise [dBA]	<35							
Protective Class	Class I							
Ingress Protection	IP65							
Mounting	Wall Mounting							
Dimensions [H*W*D] [mm]	391*532*190							
Weight [kg]	15							
Warranty [Year]	Refer to the warranty policy							
Applicable Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4015, VDE 0126-1-1							

R6 SERIES

THREE PHASE INVERTER



R6-8K-T2-32-AUS | R6-10K-T2-32-AUS
R6-15K-T2-32-AUS | R6-20K-T2-32-AUS
R6-25K-T2-32-AUS

AFCI AFCI
(Optional)



Built-in
AC & DC SPD

16A String current
up to 16A

110% 110% AC
overloading



Max. efficiency 98.6%



Safety & reliability

MODEL	R6-8K-T2-32-AUS	R6-10K-T2-32-AUS	R6-15K-T2-32-AUS	R6-20K-T2-32-AUS	R6-25K-T2-32-AUS
DC Input					
Max. PV Array Power [Wp]@STC	12000	15000	22500	30000	37500
Max. DC Voltage [V]	1100				
MPPT Voltage Range [V]	180 ~ 1000				
Rated DC Voltage [V]	600				
Start Voltage [V]	200				
Min. DC Voltage [V]	180				
Max. DC Input Current [A]	32/32				
Max. DC Short Circuit Current [A]	38.4/38.4				
No. of Strings per MPPT	2/2				
No. of MPPT	2				
DC Switch	Integrated				
AC Output					
Rated AC Power [W]	8000	10000	15000	20000	25000
Rated Apparent Power [VA]	8000	10000	15000	20000	25000
Max. Apparent Power [VA]	8000	10000	15000	20000	25000
Rated/Max. AC Output Current [A]	11.6	14.5	21.8	29.0	36.3
Current Inrush [A]	35.0			42.0	
Max. AC Fault Current [A]	91.0			100.0	
Max. AC Over Current Protection [A]	68.0			80.0	
Rated AC Voltage/Range [V]	3+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485				
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65				
Power Factor [cos ϕ]	0.8 leading ~ 0.8 lagging				
Total Harmonic Distortion [THDi]	<3%				
Efficiency					
Max. Efficiency	98.8%				
Euro Efficiency	98.5%				
Protection					
Internal Overvoltage Protection	Integrated				
DC Insulation Ristance Detection	Integrated				
Grid Monitoring	Integrated				
GFCI Monitoring	Integrated				
DCI Monitoring	Integrated				
AC Short Circuit Current Protection	Integrated				
AC Grounding Detection	Integrated				
DC Surge Protection	Integrated				
AC Surge Protection	Integrated				
Anti-islanding Protection	AFD				
AFCI Protection	Integrated				
Interface					
DC Connection	D4/MC4 (Optional)				
AC Connection	Terminal Block				
Display	LED+APP				
Communication Port	RS232(USB)+RS485(RJ45)+DRM				
Communication	Wi-Fi/Ethernet/4G(Optional)				
General Parameters					
Topology	Non-isolated				
Consumption at Night [W]	<1				
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)				
Cooling Method	Intelligent Fan cooling				
Ambient Humidity	0~100% Non-condensing				
Altitude	4000m (>3000m Power Derating)				
Noise [dBA]	<50				
Ingress Protection	IP65				
Mounting	Wall Mounting				
Dimensions [H*W*D] [mm]	429.5*558*234.5				
Weight [kg]	22.5				
Warranty [Year]	Refer to the warranty policy				
Applicable Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4015, VDE 0126-1-1				

R6 SERIES

THREE PHASE INVERTER



R6-25K-T4-32-AUS | R6-30K-T4-32-AUS
R6-33K-T4-32-AUS | R6-40K-T4-32-AUS
R6-50K-T4-32-AUS

AFCI AFCI
(Optional)



Built-in
AC & DC SPD

16A String current
up to 16A

110% 110% AC
overloading



Max. efficiency 98.6%



Safety & reliability

MODEL	R6-25K-T4-32-AUS	R6-30K-T4-32-AUS	R6-33K-T4-32-AUS	R6-40K-T4-32-AUS	R6-50K-T4-32-AUS
DC Input					
Max. PV Array Power [Wp]@STC	37500	45000	49500	60000	75000
Max. DC Voltage [V]	1100				
MPPT Voltage Range [V]	180 ~ 1000				
Rated DC Voltage [V]	600				
Start Voltage [V]	200				
Min. DC Voltage [V]	180				
Max. DC Input Current [A]	32/32/32/32				
Max. DC Short Circuit Current [A]	38.4/38.4/38.4/38.4				
No. of Strings per MPPT	2/2/2/2				
No. of MPPT	4				
DC Switch	Integrated				
AC Output					
Rated AC Power [W]	25000	29999	33000	40000	50000
Rated Apparent Power [VA]	25000	29999	33000	40000	50000
Max. Apparent Power [VA]	25000	29999	33000	40000	50000
Rated/Max. AC Output Current [A]	36.3	43.5	47.9	58	72.5
Current Inrush [A]	55.0			60.0	
Max. AC Fault Current [A]	150.0			165.0	
Max. AC Over Current Protection [A]	112.0			120.0	
Rated AC Voltage/Range [V]	3+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485				
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65				
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging				
Total Harmonic Distortion [THDi]	<3%				
Efficiency					
Max. Efficiency	98.8%				
Euro Efficiency	98.5%				
Protection					
Internal Overvoltage Protection	Integrated				
DC Insulation Ristance Detection	Integrated				
Grid Monitoring	Integrated				
GFCI Monitoring	Integrated				
DCI Monitoring	Integrated				
AC Short Circuit Current Protection	Integrated				
AC Grounding Detection	Integrated				
DC Surge Protection	Integrated				
AC Surge Protection	Integrated				
Anti-islanding Protection	AFD				
AFCI Protection	Integrated				
Interface					
DC Connection	D4/MC4 (Optional)				
AC Connection	Terminal Block				
Display	LED+APP				
Communication Port	RS232(USB)+RS485(RJ45)+DRM				
Communication	Wi-Fi/Ethernet/4G(Optional)				
General Parameters					
Topology	Non-isolated				
Consumption at Night [W]	<1				
Operating Temperature Range	-40℃ to +60℃ (45℃ to 60℃ with derating)				
Cooling Method	Intelligent Fan cooling				
Ambient Humidity	0-100% Non-condensing				
Altitude	4000m (>3000m Power Derating)				
Noise [dBA]	<50				
Ingress Protection	IP65				
Mounting	Wall Mounting				
Dimensions [H*W*D] [mm]	473*659.4*240				
Weight [kg]	36.5				37
Warranty [Year]	Refer to the warranty policy				
Applicable Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI O-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4015, VDE 0126-1-1				