

# R6 SERIES

## THREE PHASE INVERTER



R6-25K-T3-32 | R6-30K-T3-32 | R6-33K-T3-32 | R6-36K-T4-32 | R6-40K-T4-32 | R6-50K-T4-32

<b>AFCI</b> AFCI (Optional)	<b>16A</b>	String current up to 16A	 Max. Efficiency 98.8%
 Built-in AC & DC SPD	<b>110%</b>	110% AC overloading	 24/7 load monitoring (Optional)

MODEL	R6-25K-T3-32	R6-30K-T3-32	R6-33K-T3-32	R6-36K-T4-32	R6-40K-T4-32	R6-50K-T4-32
<b>DC Input</b>						
Max.PV Array Power [Wp]@STC	37500	45000	49500	54000	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					
Max.DC Short Circuit Current [A]	38.4/38.4/38.4					
No. of Strings per MPPT	3					
DC Switch	Integrated					
<b>AC Output</b>						
Rated AC Power [W]	25000	30000	33000	36000	40000	50000
Max.Apparent Power <sup>1</sup> [VA]	25000	30000	36300	39600	44000	50000
Rated Output Current [A]@230Vac	36.3	43.5 <sup>2</sup>	47.8	52.2	58	72.5
Max.Output Current [A]	37.9	50	55	60	66.7	75.8
Rated AC Voltage/Range [V]	3L+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%					
<b>Efficiency</b>						
Max. Efficiency	98.8%					
Euro Efficiency	97.5%					
<b>Protection</b>						
Internal 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	Integrated					
AC Surge Protection	Integrated					
Anti-islanding Protection	Integrated					
AFCI Protection	Optional					
<b>Interface</b>						
DC Connection	MCA/H4					
AC Connection	Plug-in Connector					
Display	LED+APP					
Communication Port	RS232(USB)+RS485(RJ45)+DRM					
Communication	Wi-Fi/Ethernet/4G(Optional)					
Load Monitoring	24/7 (Optional)					
<b>General Parameters</b>						
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]	473*659*240					
Weight [kg]	35					
Warranty [Year]	5/10/15/20					
Applicable Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50439, C10/11, IEC 62116, IEC 61772, RD 1699, RD 413, UNE 206006, UNE 206007, NIS, CEI 0-16, CEI 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1					

Remarks: <sup>1</sup>According to C10/C11, Max. Apparent Power= Rated AC Power  
<sup>2</sup>According to AS4777.2, Rated AC Current for R6-30K-T3-32 is 43.4A