

**R SERIES**  
THREE-PHASE GRID-TIED INVERTERS



**TECHNICAL SPECIFICATIONS**

MODEL	R75	R100	R110	R120	R136
<b>INPUT(DC)</b>					
Max. PV input voltage [V]	1100	1100	1100	1100	1100
Startup input voltage [V]	250	250	250	250	250
Nominal PV input voltage [V]	600	600	600	600	780
MPP voltage range [Vdc]	200-1000	200-1000	200-1000	200-1000	200-1000
No. of independent MPP inputs	9/2	9/2	10/2	12/2	12/2
Max. PV input current [A]	32	32	32	32	32
Max. DC short-circuit current [A]	40	40	40	40	40
<b>OUTPUT(AC)</b>					
AC output power [kW]	75	100	110	120	136
Max. AC apparent power [kVA]	75	100	110	120	150
Max. AC output current [A]	108.3	144.3	158.8	173.2	173.2
Nominal AC voltage [Vac]	400,3W+N+PE	400,3W+N+PE	400,3W+N+PE	400,3W+N+PE	500,3W+PE
AC voltage range	340-440				
Nominal grid f requency / Grid f requency range [HZ]	45-55 /55-65				
Adjustable power factor	0.8 leading – 0.8 lagging				
THD	<3%				
<b>EFFICIENCY</b>					
Max. efficiency	98.6%				
<b>PROTECTION</b>					
DC switch	Yes				
DC reverse connection protection	Yes				
PV String current monitoring	Yes				
DC over current protection	Yes				
AC over current protection	Yes				
PID recovery function	Yes				
Ground fault monitoring	Yes				
Leakage current protection	Yes				
Over voltage protection	DC Type II / AC Type II				
<b>GENERAL DATA</b>					
Dimensions (W*H*D) [mm]	970*630*340				
Weight [kg]	90				
Operating ambient temperature range [°C]	-25 ~ 60				
Cooling method	Smart forced air cooling				
Operating altitude [m]	3000				
Allowable relative humidity range (non-condensing)	0 ~ 100%				
Ingress protection rating	IP66				
Isolation method	Transformerless				
Display	LED, Bluetooth+APP				
Communicaion	USB / RS485 / WIFI / GPRS / PLC				
DC connecion type	MC4				
AC connecion type	OT terminal				

\* Smart I/V Curve Function will be available in Q4, 2022