

# HYBRID SOLAR INVERTER/SINGLE PHASE RTI65-3KW/6KW



Parallel Operation  
Up to 6 Units

**MPPT** 50-500Vdc(6KW)



2 Independent AC Inputs  
2 Outputs



High Efficiency  
Max.98%



Wi-Fi



Maximize PV Input  
Power(2 MPPTs)



Current Transformer



Touchscreen

MODEL	RTI65-3KW	RTI65-6KW
PHASE	1-phase in/1-phase out	
MAXIMUM PV INPUT POWER	4500W	4500W+4500W
RATED OUTPUT POWER	3000W	6000W
MAXIMUM CHARGING POWER	3000W	6000W
GRID-TIED OPERATION		
PV INPUT(DC)		
Maximum DC Voltage	/	520Vdc
Start-up Voltage /Initial Feeding Voltage	/	90Vdc/120Vdc
MPPT Voltage Range	/	50Vdc-500Vdc
Number of MPPT Trackers/Maximum Input Current	/	2/18A
GRID OUTPUT(AC)		
Nominal Output Voltage	/	220/230/240VAC
Output Voltage Range	/	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)
Nominal Output Current	/	26.1A
Power Factor	/	>0.99
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	/	97%
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage	170VAC-280 VAC	
Acceptable Input Voltage Range	90-280 VAC(APL)or170-280VAC(UPS)	
Frequency Range	50 Hz/60 Hz(Auto sensing)	
Maximum AC Input Current	16A	40A
PV INPUT(DC)		
Maximum DC Voltage	500Vdc	520Vdc
MPPT Voltage Range	60Vdc-450Vdc	50Vdc-500Vdc
Number of MPPT Trackers/Maximum Input Current	1/18A	2/18A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	93%	
HYBRID OPERATION		
PV INPUT(DC)		
Maximum DC Voltage	500Vdc	520Vdc
Start-up Voltage/Initial Feeding Voltage	90Vdc/120Vdc	
MPPT Voltage Range	60Vdc-450Vdc	50Vdc-500Vdc
Number of MPPT Trackers/Maximum Input Current	1/18A	2/18A
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)	
Nominal Output Current	13A	26.1A
AC INPUT		
AC Start-up Voltage	170VAC-280 VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280 VAC	
Maximum AC Input Current	16A	40A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Efficiency (DC to AC)	93%	
BATTERY & CHARGER		
Nominal DC Voltage	24Vdc	48Vdc
Maximum Solar Charging Current	100A	125A
Maximum AC Charging Current	100A	125A
Maximum Charging Current	100A	125A
GENERAL		
PHYSICAL		
Dimension, D x W x H(mm)	451x353x160.2	471x444x200
Net Weight (kg)	12.3	18.5
INTERFACE		
Parallel Function	/	Yes, 6 units
Communication Port	RS232/RS485/Wi-Fi	RS485/CAN/Wi-Fi/Dry contact
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
IP degree	IP65	
Operating Temperature	-10°C~50°C	
Storage Temperature	-15°C~60°C	