



**MAX 98.8% EFFICIENCY**

**IP65 PROTECTION**



## Intelligent

- Intelligent quad-core processor, information processing more comprehensive, fast, and efficient
- Intelligent positioning abnormal string with integrated I/V scan function
- Real-time fault curve recording, improve O&M efficiency
- IP68 intelligent fans, lower operation temperature, longer lifespan



## High Revenue

- High yield with Max. 98.8% efficiency
- Up to 10% continuous output overloading capacity
- 8/10 MPPT design, lower PV string mismatch loss
- Optional PID recovery function
- Max 13A input, compatible with bifacial panel



## Convenience

- Support wireless and wired internet connection (RS485, Wi-Fi/GPRS/LAN optional)
- Remote upgrading available
- App+Oled dual displaying module, user friendly

# TECHNICAL PARAMETERS THREE PHASE:RCM-80TP-M/100TP-M/110TP-M/100-TP-M-HV/125-TP-M-HV

Model	RCM-80TP-M	RCM-100TP-M	RCM-110TP-M	RCM-100TP-M-HV	RCM-125TP-M-HV
<b>Input</b>					
Max. Input Power (W)	104,000	130,000	143,000	130,000	162,500
Start-up Voltage (V)	200	200	200	200	200
Min. DC Voltage (V)	180	180	180	180	180
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100
Rated DC Input Voltage (V)	620	620	620	750	750
MPPT Voltage Range (V)	200-950	200-950	200-950	200-950	200-950
No. of MPP Trackers	8	10	10	10	10
No. of DC Inputs	16	20	20	20	20
Max. Input Current (A)	8*26	10*26	10*26	10*26	10*26
Max. Short-circuit Current (A)	8*40	10*40	10*40	10*40	10*40
<b>Output</b>					
Rated Output Power (kW)	80	100	110	100	125
Max. Output Power (kW)	88	110	121	110	137.5
Max. Apparent Power (kVA)	88	110	121	110	137.5
Rated Output Voltage (V)	3L/N/PE, 230/400V			3L/N/PE, 288/500V	
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz				
Max. Output Current (A)	127	158.8	174.8	127	158.8
Power Factor	0.8 leading...0.8 lagging				
Max. Total Harmonic Distortion	< 3% @ Rated Output Power				
DCI	< 0.5% In				
<b>Efficiency</b>					
Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%
European Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
<b>Protection</b>					
DC Reverse Polarity Protection	Integrated				
Insulation Resistance Protection	Integrated				
DC Switch	Optional				
Surge Protection	Integrated ( Type II )				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Anti-islanding Protection	Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
PID Protection	Optional				
<b>General Data</b>					
Dimensions (mm)	975W*680H*290D				
Weight (kg)	79				82
Protection Degree	IP65				
Self-consumption at Night (W)	< 1				
Topology	Transformer-less				
Operating Temperature Range (° C)	-30~60				
Relative Humidity	0~100%				
Operating Altitude (m)	4000 (derating@ > 3000)				
Cooling	Smart Fan Cooling				
Noise Level (dB)	< 55				
Display	OLED & LED				
Communication	RS485, WiFi/GPRS/LAN (Optional)				
Compliance	NB/T32004, IEC62109, IEC62116, IEC61727, IEC60068, IEC61683, EN50549, EN61000				

RCM 80~125-TP-M-HV-L-M-001-2021-07-V1.0