



RECOM Three Phase with Six MPPT  
RCM-50-TP-M/60-TP-M

**MAX 98.8% EFFICIENCY**

**IP65 PROTECTION**



**Safe & Reliable**

- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy technology
- IP65, wider working temperature and altitude, adapt to various installation environments



**High Yield**

- High yield with Max. 98.8% efficiency
- European weighted efficiency 98.3%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- Six MPPT design, lower PV string mismatch loss
- Optional anti-PID function integrated
- DC 2 in 1 connection enabled, compatible with max 17A high-power panel



**Easy to use**

- String monitoring, improve O&M efficiency
- Support wireless and wired internet connection (RS485, Wi-Fi/GPRS/LAN optional)
- Remote upgrading available
- Intelligent positioning abnormal string with integrated I/V scan function



Model	RCM-50-TP-M	RCM-60-TP-M
<b>Input</b>		
Max. Input Power (W)	65,000	78,000
Start-up Voltage (V)	200	200
Min. DC Voltage (V)	180	180
Max. DC Input Voltage (V)	1,100	1,100
Rated DC Input Voltage (V)	620	620
MPPT Voltage Range (V)	160-1000	160-1000
No. of MPP Trackers	6	6
No. of DC Inputs	12	12
Max. Input Current (A)	26/26/26/26/26/26	26/26/26/26/26/26
Max. Short-circuit Current (A)	32.5/32.5/32.5/32.5/32.5	32.5/32.5/32.5/32.5/32.5
<b>Output</b>		
Rated Output Power (kW)	50	60
Max. Output Power (kW)	55	66
Max. Apparent Power (kVA)	55	66
Rated Output Voltage (V)	3L/N/PE, 230/400V	
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz	
Max. Output Current (A)	83.6	95.3
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%
European Efficiency	98.3%	98.3%
MPPT Efficiency	99.9%	99.9%
<b>Protection</b>		
DC Reverse Polarity Protection	Integrated	
Insulation Resistance Protection	Integrated	
DC Switch	Optional	
Surge Protection	Integrated ( Type II AC/DC )	
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)	890W*520H*290D	
Weight (kg)	58	
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, VDE4105, VDE0126, AS4777, C10/11, CEI0-21, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000	