

# Poseidon Three Phase Inverter with multi MPPT

RCM-17-TP-M/20-TP-M/  
25-TP-M/30-TP-M



- Maximum efficiency is up to 98.5%
- Low startup voltage, ultrawide MPPT voltage range

## High Efficiency



- 150% oversizing, 110% overloading output
- Built-in shadow tracking function

- Ultra-high power density

## Economic



- Up to 3 MPPTs, 2 strings per MPPT

- Built-in export power control
- Intelligent load management - heat pump (Optional)

## Intelligent



- 24 hours operation monitoring
- Multiple monitoring methods, WiFi included (Optional : LAN / 4G / WiFi plus)

- SPD type II protection both AC & DC

## Safe



- ARC protection (Optional)

## TECHNICAL PARAMETERS

Model	RCM-17-TP-M	RCM-20-TP-M	RCM-25-TP-M	RCM-30-TP-M
<b>DC Input</b>				
Max. PV array input power [Wp]	25500	30000	37500	45000
Max. PV input voltage [V]	1100	1100	1100	1100
Startup voltage [V]	200	200	200	200
Nominal input voltage [V]	650	650	650	650
MPP tracker voltage range [V]	160~980			
No. of MPP trackers	2	2	3	3
Strings per MPP tracker	2	2	2	2
Max. input current per MPPT [A]	32/32	32/32	32/32/32	32/32/32
Max. short circuit current per MPPT [A]	40/40	40/40	40/40/40	40/40/40
<b>AC Output</b>				
Nominal AC output power [W]	17000	20000	25000	30000
Nominal AC output current [A]	25.8/24.7	30.3/29	37.9/36.3	45.5/43.5
Max. AC output apparent power [VA]	18700	22000	27500	30000
Max. AC output current [A]	27.5	33.6	41.8	45.5
Nominal AC voltage [V]	220/380, 230/400, 3/N/PE, 3/PE			
Nominal grid frequency [Hz]	50/60			
Displacement power factor	0.8 leading ~ 0.8 lagging			
THDi (Rated power) [%]	< 3			
<b>System Data</b>				
Max. efficiency [%]	98.30	98.30	98.50	98.50
Euro efficiency [%]	97.80	97.80	98.0	98.0
Standby consumption (Night) [W]	<3			
Ingress protection	IP66			
Operating temperature range [°C]	-30~+60 (Derating at 45)			
Max. operation altitude [m]	4000 (Derating above 3000)			
Relative humidity [%]	0~100			
Typical noise emission [dB]	<55	<55	<55	<58
Storage temperature [°C]	-30~+60			
Dimensions (W×H×D) [mm]	482×417×181			
Weight [kg]	26	26	28	28
Cooling concept	Smart fan cooling			
Communication interfaces	USB / RS485 / DRM / WiFi (Optional: WIFI Plus/LAN/4G) / Adapter box (Optional)			
<b>Protection</b>				
Over/under voltage protection	YES			
DC isolation protection	YES			
Grid monitoring	YES			
DC injection monitoring	YES			
Residual current detection	YES			
Anti-islanding protection	YES			
Over Temp protection	YES			
SPD (DC/AC)	Type II / Type II			
ARC protection	Optional			
<b>Standard</b>				
Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004			
EMC	IEC/EN 61000; NB/T 32004			
Certification	VDE4105; EN 50549; AS 4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004			
Basic warranty period	5 years			