

Zeus Three Phase Inverter with multi MPPT

RCM-80-TP-M/100-TP-M/110-TP-M/
120-TP-M/125-TP-M

**IP66
PROTECTION**

**MAX
EFFICIENCY
99%**



- Built-in export power control
- Fuse free design with smart string current monitoring
- Remote setting and upgrading
- Smart air cooling technique results in long lifetime of fans
- 24 hours operation monitoring

Smart



- Smart I-V Curve Diagnosis supported
- Aluminium AC cable connection available
- Power line communication (PLC) (Optional)
- Advanced heat dissipation technology resulting to more than 5% lighter in weight and smaller in size

- IP66 protection level
- AFCI protection (Optional)

Safety and Reliability



- AC terminal temperature detection
- Both AC & DC SPDs (Type II) integrated

- Maximum efficiency up to 99%
- 180~1000 Vdc MPPT voltage range
- Maximum 12 MPPTs, 2 strings per MPP tracker

High Efficiency



- 150% PV oversizing input
- 110% overloading output
- Maximum 32A MPPT current

TECHNICAL PARAMETERS

Model	RCM-80-TP-M	RCM-100-TP-M	RCM-110-TP-M	RCM-120-TP-M	RCM-125-TP-M
DC Input					
Max. PV array input power [kWp]	120	150	165	180	188
Max. PV input voltage [V]	1000	1000	1000	1000	1000
Startup voltage [V]	200	200	200	200	200
Nominal input voltage [V]	580/600	580/600	580/600	580/600	580/600
MPP tracker voltage range [V]	180~1000	180~1000	180~1000	180~1000	180~1000
No. of MPP trackers	9	9	9	12	12
Strings per MPP tracker	2	2	2	2	2
Max. input current per MPPT [A]	32	32	32	32	32
Max. short circuit current per MPPT [A]	46	46	46	46	46
AC Output					
Nominal AC output power [kW]	80	100	110	120	125
Nominal AC output current [A]	121.3/116	151.6/145	166.7/159.5	181.9/174	189.4/181.2
Max. AC output apparent power [kVA]	88	110	121	132	132
Max. AC output current [A]	133.4/127.6	166.7/159.5	183.4/175.4	200/191.3	200/191.3
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				
System Data					
MPPT efficiency [%]	99.9				
Max. efficiency [%]	98.6	98.6	98.6	98.6	98.6
Ingress protection	IP66				
Operating temperature range [°C]	-25~+60 (Derating at 45)				
Max. operation altitude [m]	4000 (Derating above 3000)				
Relative humidity [%]	0~100				
Dimensions (W×H×D) [mm]	985×660×327.5				
Weight [kg]	83	83	83	87	87
Cooling concept	Smart fan cooling				
Communication interfaces	RS485 / (Optional: Wifi/4G/LAN) / USB				
Protection					
Over/under voltage protection	YES				
DC isolation protection	YES				
Grid monitoring	YES				
DC injection monitoring	YES				
Residual current detection	YES				
Anti-islanding protection	YES				
String fault detection	YES				
SPD (DC/AC)	Type II / Type II				
Output terminals over temperature detection	YES				
Standard					
Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004				
EMC	IEC/EN 61000; NB/T 32004				
Certification	EN 50549; AS4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004				
Basic warranty period	5 years				