

# Hercules Three Phase Inverter with multi MPPT

RCM-40-TP-M/50-TP-M/60-TP-M

**IP66  
PROTECTION**

**MAX  
EFFICIENCY  
98,4%**



- Maximum efficiency 98.4%
- 180~1000 Vdc MPPT voltage range
- Maximum 6 MPPTs, 2 strings per MPP tracker

## High Efficiency



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

- AFCI protection (Optional)

## Safe and Reliable



- Both AC & DC SPDs (Type II) integrated

- Built-in export power control
- Remote setting and upgrading
- Smart air cooling technique results in long lifetime of fans
- Aluminium AC cable connection available
- Current measuring for each of PV string

## Smart



- 24 hours operation monitoring (Optional)
- Power line communication (PLC) (Optional)
- Smart I-V Curve Diagnosis supported
- Advanced heat dissipation technology resulting to more than 10% lighter and smaller in weight and size

## TECHNICAL PARAMETERS

Model	RCM-40-TP-M	RCM-50-TP-M	RCM-60-TP-M
<b>DC Input</b>			
Max. PV array input power [kWp]	60	75	90
Max. PV input voltage [V]	1100		
Startup voltage [V]	200		
Nominal input voltage [V]	600		
MPP tracker voltage range [V]	180~1000		
No. of MPP trackers	4	5	6
Strings per MPP tracker	2	2	2
Max. input current per MPPT [A]	32		
Max. short circuit current per MPPT [A]	46		
<b>AC Output</b>			
Nominal AC output power [kW]	40	50	60
Nominal AC output current [A]	60.6 / 58	75.8 / 72.5	90.9 / 87
Max. AC output apparent power [kVA]	44	55	66
Max. AC output current [A]	66.7 / 63.8	83.3 / 79.7	100 / 95.7
Nominal AC voltage [V]	220/380V, 230/400V, 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 [%]	98.4		
Euro efficiency [%]	98.1		
Standby consumption [W] @Night	<2		
Ingress protection	IP66		
Operating temperature range [°C]	-25~+60 (Derating above 45)		
Max. operation altitude [m]	4000 (Derating above 3000)		
Relative humidity [%]	1~100		
Dimensions (W×H×D) [mm]	630 x 521 x 286		
Weight [kg]	44	44	45
Cooling concept	Smart fan cooling		
Communication interfaces	RS485 / (Optional: Wifi/4G/LAN) / USB		
<b>Protection</b>			
Over/under voltage protection	YES		
Over current 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		
Over temperature protection	YES		
SPD (DC/AC)	Type II / Type II		
ARC	Optional		
<b>Standard</b>			
Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004		
EMC	EN/IEC 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		