

# Titan Three Phase Hybrid Storage Inverter with Dual MPPT

RCM-5-H-TP-D/6-H-TP-D/8-H-TP-D/  
10-H-TP-D/12-H-TP-D/15-H-TP-D

**ZERO-EXPORT  
FEED-IN  
OPERATION**

**MAX  
EFFICIENCY  
98%**



- 150% PV oversized and 110% overload output
- High input current up to 26 A

**High Efficiency**

- Built-in shadow tracking function
- Higher efficiency on charging and discharging, up to 98.5%

- Stores the surplus energy from PV to battery
- Low starting voltage resulting to more production during the day

**Economic**

- Less energy loss, higher efficiency among battery & inverter
- RCM-Wifi included

- Switchover time <10ms
- CT compatible, loads respond within 0.3s
- Intelligent loads management

**Smart**

- 5 working modes, 2 charging periods available
- Three-phase unbalanced output up to 50% nominal output power on single phase



TECHNICAL PARAMETERS

Model	RCM-5-H-TP-D	RCM-6-H-TP-D	RCM-8-H-TP-D	RCM-10-H-TP-D	RCM-12-H-TP-D	RCM-15-H-TP-D
<b>DC Input</b>						
Max. PV array input power [Wp]	8000	10000	12000	15000	18000	18000
Max. PV input voltage [V]	1000	1000	1000	1000	1000	1000
Start output voltage [V]	200	200	200	200	200	200
Nominal input voltage [V]	640	640	640	640	640	640
MPP voltage range [V]	180~950	180~950	180~950	180~950	180~950	180~950
No. of MPP trackers / Strings per MPP tracker	2(1/1)	2(1/1)	2(2/1)	2(2/1)	2(2/1)	2(2/1)
Max. input current (input A/input B) [A]	16/16	16/16	26/16	26/16	26/16	26/16
Max. short circuit current (input A/input B) [A]	20/20	20/20	30/20	30/20	30/20	30/20
<b>AC input &amp; Output</b>						
Nominal AC output power [W]	5000	6000	8000	10000	12000	15000
Max. AC output apparent power [VA]	5500	6600	8800	11000	13200	15000
Max. AC output current [A]	8.1	9.7	12.9	16.1	19.3	24.1
Max. AC input apparent power [VA]	10000	12000	16000	20000	20000	20000
Max. AC input current [A]	16.1	19.3	25.8	32.0	32.0	32.0
Nominal AC voltage [V]	415/240; 400/230; 380/220					
Nominal grid frequency [Hz]	50/60					
Displacement power factor	0.8 leading~0.8 lagging					
THDi (rated power) [%]	<3					
<b>Battery Data</b>						
Battery type	Li-ion battery					
Battery voltage range [V]	180~650					
Max. continuous charge/discharge current [A]	30					
<b>EPS (Off-Grid or Back-up) output (with battery)</b>						
Nominal output power [W]	5000	6000	8000	10000	12000	15000
Peak apparent power [VA]	7500, 60s	9000, 60s	12000, 60s	15000, 60s	15000, 60s	16500, 60s
Max. continuous current [A]	7.2	8.7	11.6	14.5	17.5	21.8
Nominal voltage [V]; Frequency [Hz]	400/230; 50/60					
Switch time [ms]	<10					
Parallel operation	YES					
<b>System Data</b>						
Max. efficiency [%]	98.0					
Euro. efficiency [%]	97.7					
Battery charge/discharge efficiency [%]	98.5/97.5					
Standby consumption [W] @Night	<5					
Degree of protection	IP65					
Operating temperature range [°C]	-35~60 (Derating above +45°C)					
Max. operation altitude [m]	<3000					
Relative humidity [%]	0~100					
Typical noise emission [dB]	<35	<35	<35	<35	<45	<45
Storage temperature [°C]	-40~+70					
Dimensions(W×H×D) [mm]	503×503×199					
Net weight [kg]	30					
Cooling concept	Nature cooling	Nature cooling	Nature cooling	Nature cooling	Smart cooling	Smart cooling
Communication interfaces	CT / Meter(optional) / External control RS485 / WiFi (Optional: LAN / 4G / WiFi plus) / DRM / USB Upgrade / NTC (optional)					
<b>Standard</b>						
Safety	EN/IEC62109-1/-2					
EMC	EN61000-6-1/2/3/4;EN61000-3-2/3/11/12					
Certification	VDE4105/G99 /G98 / AS4777 / EN50549/ CEI 0-21 /IEC61727/PEA/MEA/NRS-097-2-1/RD1699/TOR					