

# Titan High Voltage Three Phase Hybrid Inverter

RCM-20~60-H-TP-M-C



**MAX.  
EFFICIENCY**  
>97.6%



Up to 20 pcs inverters parallel for off-grid operation

**Reliability**

Independent AC input port for diesel generator.

High battery charging/discharging current up to 120A

**High Performance**

Support battery charging / discharging according to the time setting

Support on/off-grid mode switch, EPS output

**Flexible**

Support storing energy from diesel generator.

Colorful touch LCD, IP65 protection degree.

**Advanced**

High PV input current up to 18A.



## Technical Parameters

Model	20	25	29.9	30	35	40	50	60
<b>Battery Input</b>								
Battery Type	Lead-acid or Li-ion							
Battery Voltage Range (V)	160~800							
Max Charging/Discharging Current (A)	60+60							
Max Charging/Discharging Power (kw)	22	27.5	29.9	33	38.5	44	55	62.5
Charging Curve	3 Stages/Equalization							
Number of Battery input	2							
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS							
<b>PV String Input</b>								
Max. DC Input Power (kW)	30	37.5	44.85	45	52.5	60	75	90
PV Input Voltage (V)	600 (150~900)							
MPPT Range (V)	150~850							
Start-up Voltage (V)	180							
PV Input Current (A)	3*36			4*36			5*36	
Max. PV Isc (A)	3*55			4*55			5*55	
No. of MPPT Trackers	3			4			5	
No. of Strings per MPPT Trackers	2/2/2			2/2/2/2			2/2/2/2/2	
<b>AC Output</b>								
Rated AC Output and UPS Power (kW)	20	25	29.9	30	35	40	50	60
Max. AC Output Power (kW)	22	27.5	29.9	33	38.5	44	55	65
Peak Power (off grid) (kW)	1.5 times of rated power,10s							
AC Output Rated Current (A)	30.3/29.0	37.9/36.2	45.4/43.4	45.5/43.5	53.1/50.8	60.7/50.8	75.8/72.5	90.9/87.0
Max. AC Current (A)	33.3/31.9	41.7/39.8	45.4/43.4	50/47.9	58.4/55.8	66.7/63.6	83.4/79.8	100/95.8
Max. Continuous AC Passthrough (A)	100			200				
Output Frequency and Voltage (V)	50/60Hz, 230/400Vac, 220/380							
Grid Type	Three Phase							
Current Harmonic Distortion	THD < 3%							
<b>Efficiency</b>								
Max. Efficiency	97.60%							
Euro Efficiency	97.00%							
MPPT Efficiency	>99%							
<b>Protection</b>								
Integrated	PV Input Lightning Protection, Anti-Islanding Protection,PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit Output Over Current Protection, Output Shorted Protection							
PV ARC Fault Detection	Optional							
Output Over Voltage Protection	DC Tyle III/AC Type III							
<b>Certifications and Standards</b>								
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-11							
Safety Regulation	IEC/EN62109-1, IEC/EN62109-2							
EMC	IEC/EN 61000-6-1,EC/EN 61000-6-2. IEC/EN 61000-6-3, IEC/EN 61000-6-4							
<b>General Data</b>								
Operating Temperature Range (°C)	-45~60, >45 Derating							
Cooling	Smart Cooling							
Noise (dB)	≤65							
Communication with BMS	CAN, RS485							
Weight (kg)	109.3							
Dimensions (mm)	976W×665Hx371D							
Protection Degree	IP65							
Installation Style	Wall-mounted							