

Apollo Single Phase Inverter with Dual MPPT

RCM-2.5-SP-D/3.0-SP-D/3.3-SP-D/
3.6-SP-D/4.2-SP-D/
5.0-SP-D/6.0-SP-D

**IP66
PROTECTION**

**MAX
EFFICIENCY
98%**



- Home EV Charger and Heat Pump Solution adaptable

**Superior
Adaptability**

- Mass management and broad extension via Datahub
- Zero-export feed-in operation

- 10s level interval of data update (Optional: RCM-WiFi plus required)

**User Friendly
Monitoring**

- Quick and easy configuration (WiFi & APP)

- DC Input: 200% oversizing, 16A current
- 50V startup voltage

**Upgraded
Performance**

- In-built global MPP scan for higher yield efficiency



TECHNICAL PARAMETERS

| Model | RCM-2.5-SP-D | RCM-3.0-SP-D | RCM-3.3-SP-D | RCM-3.6-SP-D | RCM-4.2-SP-D | RCM-5.0-SP-D | RCM-6.0-SP-D |
|--|---|--------------|--------------|-------------------|--------------|-------------------|--------------|
| DC Input | | | | | | | |
| Max. PV array input power [Wp] | 5000 | 6000 | 6600 | 7200 | 8000 | 10000 | 12000 |
| Max. PV input voltage [V] | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Startup voltage [V] | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Nominal input voltage [V] | 360 | 360 | 360 | 360 | 360 | 360 | 360 |
| MPP tracker voltage range [V] | 40~560 | 40~560 | 40~560 | 40~560 | 40~560 | 40~560 | 40~560 |
| No. of MPP trackers / String per MPP tracker | 2 / 1 | | | | | | |
| Max. PV input current [A] | 16 / 16 | | | | | | |
| Isc PV Array Short Circuit current [A] | 22 / 22 | | | | | | |
| AC Output | | | | | | | |
| Rated AC output power [W] | 2500 | 3000 | 3300 | 3680 | 4200 | 5000 ¹ | 6000 |
| Rated AC output current [A] | 10.9 | 13 | 14.3 | 16 | 18.3 | 21.7 | 26.1 |
| Max. AC output apparent power [VA] | 2800 | 3300 | 3630 | 4048 ⁴ | 4620 | 5000 ² | 6000 |
| Max. AC output current [A] | 13.3 | 14.3 | 15.7 | 17.6 ⁵ | 20.1 | 21.7 ³ | 27.3 |
| Nominal AC voltage / AC voltage range [V]** | 220/230/240;90~290 | | | | | | |
| Nominal AC frequency / AC frequency range [Hz]** | 50/60;±5 | | | | | | |
| Power Factor range | 0.8leading~0.8lagging | | | | | | |
| THDi (Rated power) [%] | <3 | | | | | | |
| System Data | | | | | | | |
| Max. efficiency [%] | 98 | | | | | | |
| Euro. efficiency [%] | 97 | | | | | | |
| Standby consumption [W] @Night | <3 | | | | | | |
| Ingress protection | IP66 | | | | | | |
| Operating ambient temperature range [°C] | -25~60 | | | | | | |
| Max. operation altitude [m] | 4000 | | | | | | |
| Relative Humidity [%] | 0~100 | | | | | | |
| Typical noise emission [dB] | 25 ⁶ | | | | | | |
| Storage temperature [°C] | -30~70 | | | | | | |
| Dimensions (W×H×D) [mm] | 404×274×146 | | | | | | |
| Weight [kg] | 11 | | | | | | |
| Cooling concept | Nature cooling | | | | | | |
| Communication interfaces | USB/RS485/DRM, Optional: Meter/CT * | | | | | | |
| Monitoring dongle | WiFi (Included) (Optional: LAN/4G/RCM-WiFi plus) | | | | | | |
| Display | 2 x LED + LCD (16 x 2) / APP | | | | | | |
| Protection | | | | | | | |
| Over/under voltage protection | Yes | | | | | | |
| DC isolation protection | Yes | | | | | | |
| Monitoring ground fault protection | Yes | | | | | | |
| Grid monitoring | Yes | | | | | | |
| DC injection monitoring | Yes | | | | | | |
| Back feed current monitoring | Yes | | | | | | |
| Residual current detection | Yes | | | | | | |
| Anti-islanding protection | Yes | | | | | | |
| Over temperature protection | Yes | | | | | | |
| DC Switch | Integrated | | | | | | |
| Standard | | | | | | | |
| Safety | EN/IEC62109-1/2 | | | | | | |
| EMC | EN61000-6-1/2/3/4; EN61000-3-2/3/11/12 | | | | | | |
| Certification | IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR | | | | | | |

¹ 5000 (4600 for VDE4105) • ² 5000 (4600 for VDE4105) • ³ 21.7 (20 for VDE4105) • ⁴ 4048 (3680 For G98/G99, TOR and PPDS) • ⁵ 17.6 (16 For G98/G99, TOR and PPDS)⁶ For models with internal fan (Optional), typical noise emission is 30 dB

* Not included in the package. Please purchase additionally; ** The AC voltage and the frequency range may vary from different country codes.