SMA REVENUE GRADE METER KIT





Accurate and versatile

- ANSI C12.20 revenue grade energy production monitoring provides a high level of accuracy
- Measures active, reactive and apparent power as well as grid voltage and frequency

Perfect alignment

- Designed for integration with Power+ Solution
- Ultra-compact DIN rail mounted meter kit mounts inside the Sunny Boy inverter

Plug-and-play

- Prewired and preassembled kit reduces installation time
- Quick and easy setup

SMA REVENUE GRADE METER KIT

Simple integration with extreme accuracy

SMA Revenue Grade Meter Kit is a revenue-grade energy meter designed for monitoring Sunny Boy inverter production with a 0.5% degree of accuracy. Its compact size and plug-and-play design allow it to be easily and quickly installed inside the Sunny Boy inverter. It collects a wide array of energy data which is either stored locally in the inverter or uploaded to the Sunny Portal powered by ennexOS, allowing both system installers and owners to efficiently manage solar assets. It is designed to operate in unison with either the SMA Cellular LTE Modem Kit or the SMA RS485 Module.

Revenue Grade Meter Kit Revenue Grade Meter Kit Technical data RGM05KIT-US-10-485 RGM05KIT-US-10 General data SMA SBx.x-1SP-US-41, SMA SBx.x-1SP-US-40 Compatible inverter models 2.04.74.R or later Compatible inverter firmware ANSI C12.20 measurement accuracy 0.5% 120 - 277 V AC Operating voltage range AC frequency range 45 - 65 Hz Rated CT current 50 A Measurement category Category III - 300 V AC Grids supported, single phase 2-wire 208 V WYE, 208 V Delta (no neutral), 240/120 V Split phase, 240 V Delta (no neutral) Power consumption (typ.) <2 VA $100 \ x \ 100 \ x \ 85 \ mm$ / (3.94 $x \ 3.94 \ x \ 3.35 \ in)$ Dimensions (HxWxD) Weight 0.4 kg (0.88 lb) -25°C to +60°C (-13°F to +140°F) Temperature range (operating) Temperature range (standby) -40°C to +60°C (-40°F to +140°F) Relative humidity (non-condensing) 5 to 95% Protection rating NEMA 1 (IP40) Mounting type DIN rail (included in kit) Warranty 5 years Supported communication interfaces Modbus RTU (SunSpec Certified) Compliance IEC 61010-2-030:2010 (1st Edition), UL Std 61010.1:2012 (3rd Edition), Rev. July 15, 2015, Safety CAN/CSA C22.2 # 61010.1 (3rd Edition), Rev. July 15, 2015 IEC 61326-1 (2012) Ed2, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-2, EMC IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11 FCC Part 15 Class B / CISPR 11 Group1 Class B Emissions ANSI C12.20, Class 0.5 Revenue meterina Communications SunSpec Alliance certified Other **RoHS** Compliant Measurlogic DTS 307 Meter type Installation considerations RS485 card included Compatible with CELLMODKIT-US-10 • Standard features • Optional features - Not available

Type designation

RGM05KIT-US-10-485

RGM05KIT-US-10