



BILLING SOLUTIONS



Soluciones en medida y análisis de la energía eléctrica

Satec es un líder global con más de cuatro décadas de experiencia en la investigación, desarrollo y fabricación de soluciones de monitorización energética.

La gama de **productos de Satec** abarca desde analizadores de energía básicos hasta analizadores de red de gama alta con capacidades avanzadas de análisis de calidad de suministro y automatización de subestaciones.

#EnergySolutions #PowerQuality #energymanagement #energyefficiency



- Class 0.5 (0.2% accuracy) according to IEC62053-41 (in certification process, finish end of may)
- DC Measurement up to 800VDC Directly
- Current via UHACS (Ultra High Accuracy Sensor)
- Voltage up to 3.5kV DC via SATEC VRM
- 16GB memory on-board
- Dual Port Ethernet – Daisy Chain connection
- IEC 61850 / IEC 60870-101/104 / DNP3



**SATEC Voltage Ratio Module
for Voltage above meter rating
application.**



**Up to 3000 V
Accuracy: 0.1%**

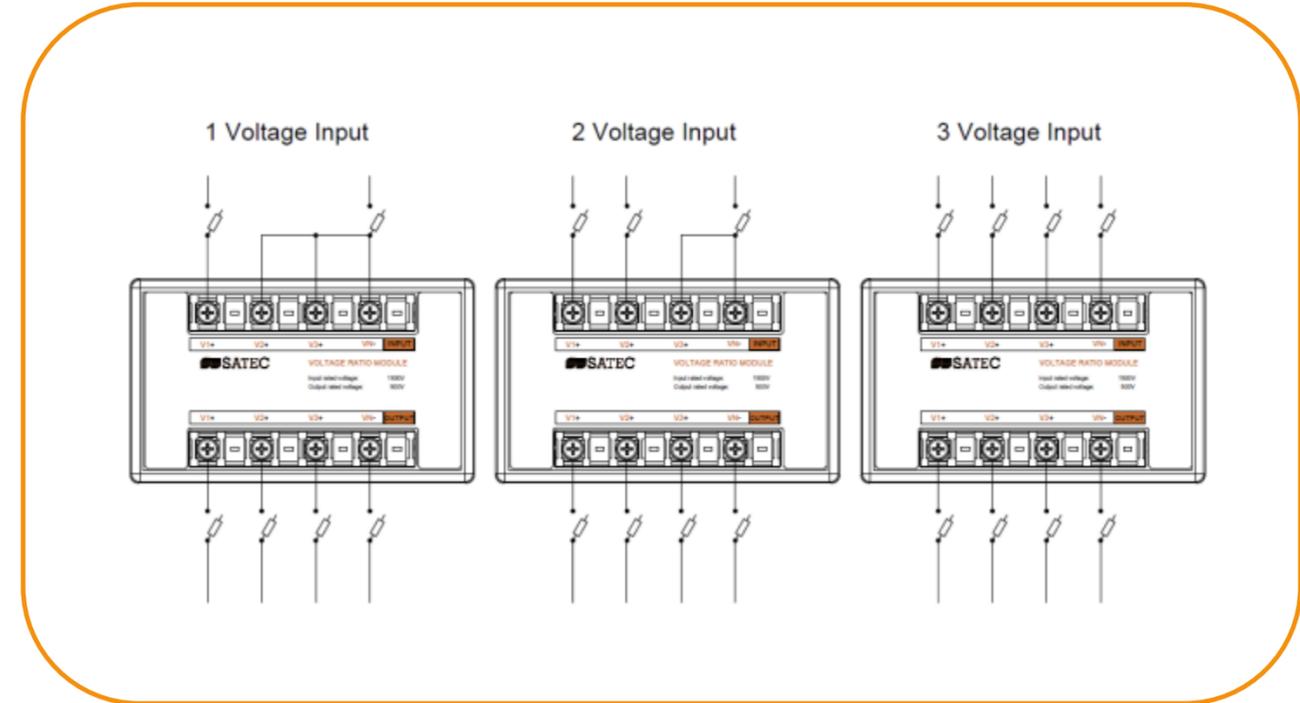
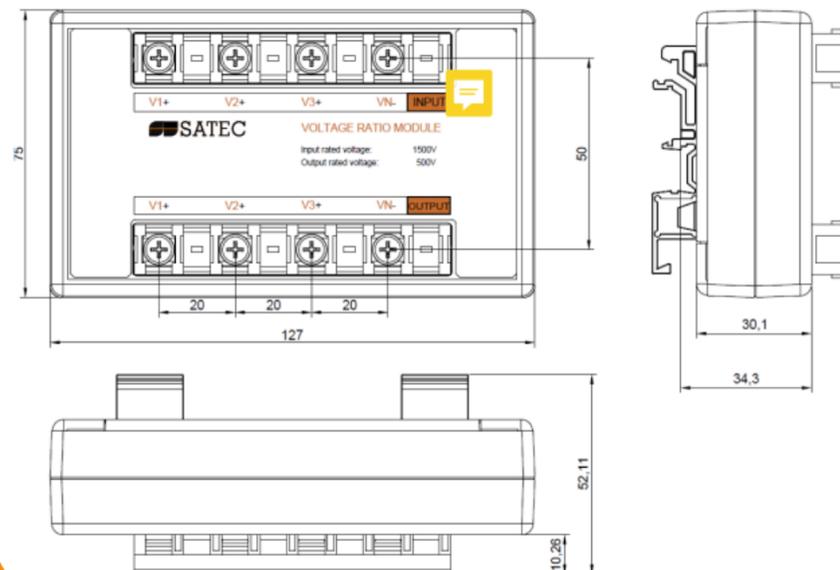
DC Input: 3 Independent voltage inputs with shared common Negative input.

Terminals / Wire size: 12 AWG (up to 3.5 mm²)

Installation: DIN-rail Dimensions:

127 x 75 x 52 mm

Weight: 80 grams



PT ratio 3.5

SATEC UHACS 2500 A

FCS-2500/13 DATASHEET

Solid Core Flux Gate Current Sensor

This Flux Gate sensor has a high gain and measurement accuracy in the full bandwidth range, due to the application of the multi-point zero-flux technology system and high-frequency ripple sensing channel on top of currently existing DC sensor technology.



TECHNICAL SPECIFICATIONS

GENERAL CHARACTERISTICS

Primary Nominal current DC	± 2500A DC
Linear measuring range (1min)	1.1 x IPN_DC
Primary Nominal current AC	± 1750A AC (refers to AC effective value)
Nominal output signals	±40mA
Supply voltage	±24VDC (±5%)
Current consumption	±1.200mA
Galvanic isolation	5KV RMS/50Hz/min
Conversion ratio	2500:40
Weight	7,2 ± 0,5 kg



ACCURACY

Zero offset current	±1 µA (@25 °C)
Offset temperature coefficient	25 ppm / K
Measuring resistance	250 Ohm
Response time	±20µs (di/dt of 100A/µs)
Accuracy	0,1%
Linearity	0,02% FS
Protection of Case	IP45

ENVIRONMENTAL

Operating temperature	-40°C ~ +80°C
Storage temperature	-55°C ~ +95°C

DEFINITION OF PART NUMBER

FCS - 2500

Rated Input current M = 2500A

Including UHACS models for
300, 600, 1000, 2000 A *

* May change from time to time.

IEC 62053-41		
	Class (Values refers to current)	
CURRENT	0,5	1
$0,1 I_n \leq I \leq I_{max}$	0,50%	1,00%
$I_{min} \leq I < 0,1 I_n$	1,00%	1,50%

PRO Meters & UHACS– Best solution for revenue DC metering

- SATEC EM235/PM335 Direct Current (DC) Meters
- VRM
- UHACS (Ultra-High Accuracy Current Sensors)
- complies with IEC 62053-41 – “Electricity metering equipment – Particular requirements – Part 41: Static meters for DC energy (classes 0,5 and 1)
- Also , in the future will be certification for ANSI C12.32:2022 – “Electricity Meters for the Measurement of DC Energy” .



dónde encontrarnos



Sierra de Guadarrama, 9 Bis
28830 San Fernando de Henares
Madrid.



+34 917 218 519



info@enertronic.es

www.enertronic.es 

