

SLC ENERGY MANAGER

Smart energy meter



SLC ENERGY MANAGER: Efficient energy management

The **SLC ENERGY MANAGER** stands out for its straightforward installation process and user-friendly method of configuring the system's basic parameters via cable or WiFi, ensuring no unnecessary time is wasted during the system startup. Additionally, the Energy Manager includes a range of advanced features that optimise performance and efficiency in solar photovoltaic installations, making it an invaluable ally for your solar projects.

One of the most recently integrated functions simplifies the installation process to avert potential complications when aligning the phase supply with the toroidal in three-phase equipment while verifying the orientation of the clamp meter in single-phase installations. It is the only device on the market that offers **automatic current transformer configuration**, enabling faster connections without metering errors.

Performances

- Autoconfiguration of current transformers.
- Dynamic injection control.
- Programmable dry contact.
- Measurement capacity and Wi-Fi connectivity integrated in a single device.
- Access to the **EQUINOX APP** and web portal.
- Zero-injection management of surplus energy.
- Savings achieved through smart management of generation devices and loads.
- High degree of compatibility with existing systems.
- Complete solution option with current transformers included.

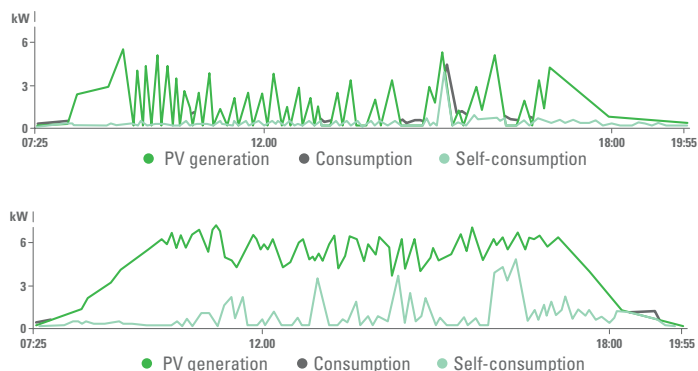


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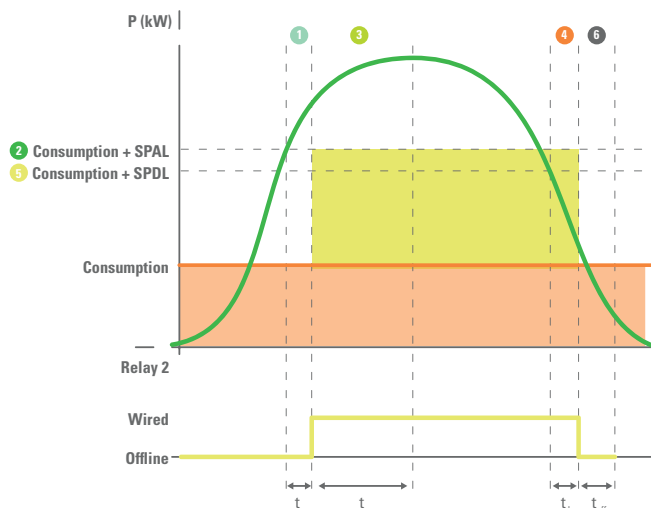
Dynamic feed-in control

Say goodbye to issues with inverter line surges caused by inadequate grid installations. Our device features dynamic feed-in control, which continuously regulates the energy fed into the grid, generating up to 80% more energy. This ensures safe and stable operation while preventing the system from exceeding safety thresholds. This is essential for working within the safe voltage range of the indoor installation and extending the lifetime of the electronic devices.



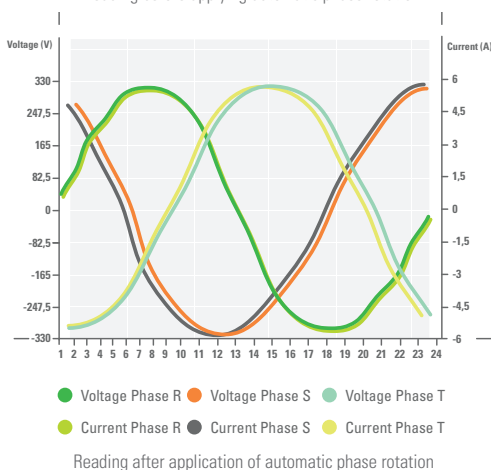
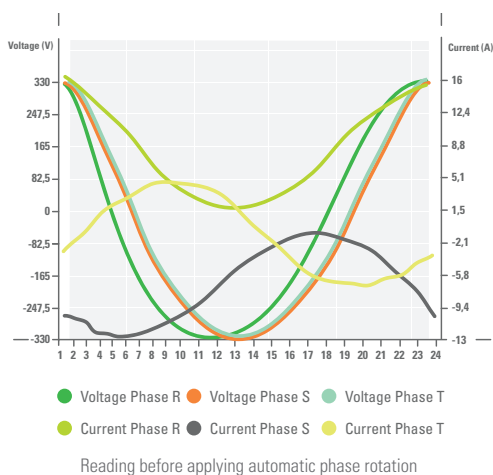
Programmable dry contact

An integrated programmable dry contact allows surplus energy to be redirected to systems such as air-source heat pumps or resistive loads. This not only maximises the utilisation of the energy generated but also enhances the overall efficiency of the installation.



Energy community

An energy community can be created by installing and integrating different **SLC Energy Manager** devices in the homes or at the consumption points that form the community. Each user can view their energy consumption alongside their proportional share of the community's energy generation as if it were an individual photovoltaic system.



You can also configure up to ten weather probes to collect precise data on solar radiation, ambient temperature, and cell temperature. This allows for more accurate control of the plant and improved management of the generated energy.

Up to 30 devices in parallel

The system can handle up to 30 devices simultaneously for grid inverters and up to 4 devices for hybrid inverters, including zero feed-in capability. This feature is crucial for complying with specific regulations and ensuring that no excess power is released into the grid.

For more advanced users, it supports the connection of any transformer with a secondary current of 5 A, offers full configuration options for grid-related issues, and enables interaction with the device via API for integration into existing proprietary systems.

European servers

All data is stored on European servers, and the device is compatible with inverter equipment from other brands.

Additionally, it can be fully upgraded remotely, allowing you to continuously receive updates and enjoy new features without needing to replace the equipment.

Together, these features make the **SLC ENERGY MANAGER** an intelligent and efficient solution for advanced solar energy management, optimising both the performance and profitability of installations.

SLC ENERGY MANAGER Range

MODEL	CODE	EAN CODE	DESCRIPTION
SLC ENERGY MANAGER Lite 80D16	6B20R000005	8436584874867	Single-phase Energy Manager with 80 A ⁽¹⁾ transformer and without relay output or WIFI antenna
SLC ENERGY MANAGER 80D16	6B20R000001	8436584874829	Single-phase Energy Manager with 80 A ⁽¹⁾ transformer and with relay output
SLC ENERGY MANAGER Lite 300D50	6B20R000006	8436584874874	Single-phase Energy Manager with 300 A ⁽²⁾ transformer and without relay output or WIFI antenna
SLC ENERGY MANAGER 300D50	6B20R000002	8436584874836	Single-phase Energy Manager with 300 A ⁽²⁾ transformer and with relay output
SLC ENERGY MANAGER ../5	6B20Q000035	8436584874799	Single-phase Energy Manager without transformer and with relay output
SLC ENERGY MANAGER T 80D16	6B20R000003	8436584874843	Three-phase Energy Manager with 80 A ⁽¹⁾ transformer and with relay output
SLC ENERGY MANAGER T 300D50	6B20R000004	8436584874850	Three-phase Energy Manager with 300 A ⁽²⁾ transformer and with relay output
SLC ENERGY MANAGER T ../5	6B20Q000036	8436584874805	Three-phase Energy Manager without transformer and with relay output

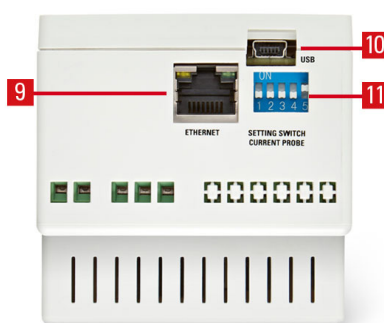
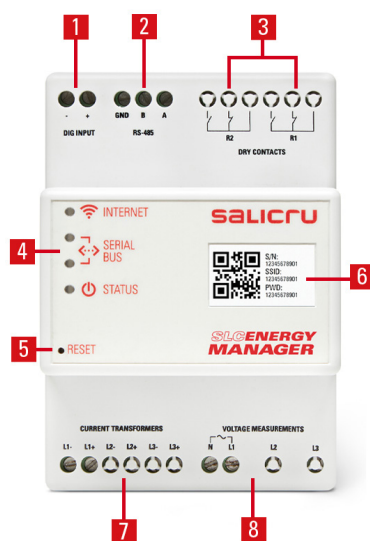
(1) Current measuring transformer 80 A/100 mA clamp type for cables with a maximum diameter of 16 mm. included (x1 for single-phase / x3 for three-phase).

(2) Current measuring transformer 300 A/100 mA clamp type for cables with a maximum diameter of 50 mm. included (x1 for single-phase / x3 for three-phase).

For codes 6B20Q000035 / 6B20Q000036 the current transformer is not included. Compatible with CT for the following primary currents: 100/300/400/600/1000/1500/2000 A.

Lite models do not include WiFi connectivity.

Connections



1. Digital signal input.
2. RS-485 output.
3. Relay outputs.
4. LED status indicators.
5. Hidden reset button.
6. Device configuration code.
7. Terminals for current transformers.
8. Device supply and voltage measurement.
9. Ethernet port.
10. USB port.
11. DIP switch for configuration.

Technical specifications

MODEL		SLC ENERGY MANAGER Lite Single-phase	SLC ENERGY MANAGER Single-phase	SLC ENERGY MANAGER Three-phase
INPUT	Rated voltage	110 - 240 Vac		
	Voltage range	± 10%		
	Rated frequency	50/60 Hz		
	Rated current	0,05 A		
VOLTAGE MEASUREMENT	Voltage range	110 - 265 Vac		3 × (190 - 458 Vac) + N
	Frequency range	50/60 Hz		
	Accuracy	1%		
CURRENT MEASUREMENT	Output current	100 mA ⁽¹⁾ o 5 A ⁽²⁾		
	Overcurrent	120% In		
	Accuracy	1%		
COMMUNICATION	Ports	RS-485 / Voltage sensor / CT sensor / LAN	RS-485 / Voltage sensor / CT sensor / LAN / Wifi	
	Interface	Embedded URL		
	Protocol	Modbus		
RELAYS	Amount	-	2 ⁽³⁾	
	Rated voltage	-	250 Vac	
	Rated current	-	6 A	
INPUT SIGNALS	Digital	-	5 Vdc	
GENERAL	Operating temperature	0 - 50 °C		
	Relative humidity	95% (without condensation)		
	Maxium operating altitude	3,000 masl		
	Degree of protection	IP20		
STANDARDS	Safety	UNE EN IEC 61010-1:2011/A1:2020, 61010-2-030		
	Electromagnetic compatibility (EMC)	UNE EN IEC 61326-1		
	Zero-injection	UNE 217001:2020		
	Corporate cerification	ISO 9001, ISO 14001, ISO 45001		
DIMENSIONS	Depth × Width × Height (mm)	70.5 × 70 × 101		

(1) Compatible with CT with the following primary currents: 80/200/300/400/600/1000/2000 A.

(2) Compatible with CT with the following primary currents: 100/300/400/600/1000/1500/2000 A. Check for other currents.

(3) One relay is for a zero-injection contactor, and the other is fully programmable.

Information subject to change without notice.

