

# Solar Production, Native on KNX

One gateway, bridging several solar inverter brands to KNX.



DIN-rail · 2 SU · TP & Ethernet

## PRODUCT OVERVIEW

The INV-KNX is a DIN-rail gateway that brings live photovoltaic data — production, battery storage and grid exchange — onto the KNX bus as standard datapoints. It reads the inverter over Modbus TCP via Ethernet and republishes up to 55 group objects in their native KNX DPTs, so self-consumption, peak-shaving and dynamic-tariff strategies can run entirely on the bus. A single product family covers several inverter brands with an identical KNX application structure.

## KEY FEATURES

<p><b>Several Inverter Brands</b></p> <p>Huawei, Sungrow, Fronius, SolarEdge, SMA, Kostal, GoodWe, Sigenergy — one identical KNX application.</p>	<p><b>~55 KNX Group Objects</b></p> <p>Production, battery, smart-meter and diagnostics exposed as native KNX datapoints.</p>	<p><b>Standard KNX DPTs</b></p> <p>Power 14.056, Voltage 14.027, Current 14.019, Energy 13.013, SOC 5.001, Temp 9.001.</p>
<p><b>Up to 4 PV Strings</b></p> <p>Per-string voltage and current monitoring for granular yield and diagnostics.</p>	<p><b>Dual Battery Support</b></p> <p>State of Charge, charge / discharge power and energy for up to two batteries.</p>	<p><b>Smart-Meter Integration</b></p> <p>Signed active power at the point of common coupling for surplus-based logic.</p>
<p><b>64 Logic Functions</b></p> <p>Logic Gate, Sequence, Trigger and Math blocks run energy strategies on-device.</p>	<p><b>Galvanic Isolation</b></p> <p>KNX bus fully isolated from the auxiliary supply and the Ethernet network.</p>	<p><b>ETS</b></p> <p>Configured as a single KNX device using ETS</p>

## SUPPORTED INVERTER BRANDS

Huawei	Sungrow	Fronius	SolarEdge	SMA	Kostal	GoodWe
Sigenergy						

## TECHNICAL SPECIFICATIONS

<b>Form factor</b>	DIN-rail, 2 SU	<b>KNX interface</b>	KNX TP, galvanically isolated
<b>Auxiliary supply</b>	12–30 VDC, screw terminal	<b>Datapoints</b>	~55 group objects, native DPTs
<b>KNX bus current</b>	< 16 mA @ 29 VDC	<b>Logic engine</b>	64 functions (Gate / Sequence / Trigger / Math)
<b>Network</b>	Ethernet RJ45	<b>Inverter link</b>	Modbus TCP
<b>Operating temp.</b>	+5 °C to +45 °C	<b>Configuration</b>	ETS