

GSM Plug-in with Data Plan

For Europe and Israel

SExxxx-xx000NGx2 / SExxxx-xx000NGx4
SE-SIM-R12-EU-S1 / SE-SIM-R12-EU-S2
SE-SIM-R05-EU-S5 / SE-SIM-R05-EU-S3



COMMUNICATION

Cellular Internet Connectivity

- // Connects SolarEdge inverters wirelessly to the Internet
- // No need for Internet infrastructure at site
- // Installed within the inverter enclosure for outdoor resilience
- // Enables remote analysis and troubleshooting
- // Supports low bandwidth configuration for reduced data usage and cost
- // Can be used with SolarEdge data plan or third-party SIM card

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SE-SIM-R05-EU-S5 / SE-SIM-R05-EU-S3

COMPATIBLE INVERTERS		SEXXXX-XXXXNXXX (INVERTERS WITH A DISPLAY) SExxxx-xx000NGx2 / SExxxx-xx000NGx4		UNIT
DATA PLAN	HIGH BANDWIDTH MODE	LOW BANDWIDTH MODE		
Number of Inverters Monitored with a Single GSM Plug-in	Up to 32	1		
Monitoring	Data sampled every 5 minutes and sent to SolarEdge server continuously ⁽¹⁾	Data sampled every 15 minutes and sent to SolarEdge server every 4 hours		
Monthly Data - per Inverter	7.8	2.6	MB	
Monthly Data - per Optimizer	0.15	0.05	MB	
Monthly Data - per Revenue Grade Meter	0.3	0.1	MB	
Monthly Data - per Export or Consumption Meter	3	0.55	MB	
Monthly Data - per Battery	3	0.7	MB	
Monthly data - per Commercial Gateway or Firefighter Gateway	3	Not supported	MB	
Compatible with 3rd party SIM card		✓		
Compatible with SolarEdge data plan	✓	✓		
RF PERFORMANCE				
Operating Frequency Min.-Max. 900	Modem transmit: 880-915 / Modem receive: 925-960		MHz	
Operating Frequency Min.-Max. 1800	Modem transmit: 1710-1785 / Modem receive: 1805-1880		MHz	
Operating Frequency Min.-Max. 2100	Modem transmit: 1920 -1980 / Modem receive: 2110 -2170		MHz	
Antenna	Included, 2dBi outdoor; Dual band antenna: 824-960MHz / 1710-2170MHz			
Maximum output power: 0.9GHz / 1.8GHz / 2.1GHz band	33 / 30 / 24		dBm	
Receiver Input Sensitivity (Downlink RF level @ BER Class II < 2.4 %)	Typical -109		dBm	
STANDARD COMPLIANCE				
Emissions and Radio	EN 301-489-1, EN 301-489-7, EN 301-511			
INSTALLATION SPECIFICATIONS				
Dimensions (L x W)	90.5 x 34.5 / 3.55 x 1.35		mm/in	
Operating Temperature	-40 to +85 / -40 to +185		°C/°F	
Mounting	Built into the inverter or installed as an upgrade kit ⁽²⁾			
SIM CARD HOLDER				
Type	Micro-Sim ⁽³⁾			

⁽¹⁾ Up to 90MB/month of overhead per site may be observed, depending on SIM card provider.

⁽²⁾ The GSM Plug-in upgrade kit is available under the following part numbers: for single phase inverters SE-1PH-GSM-K1, for three phase inverters SE-3PH-GSM-K2.

⁽³⁾ Non-SolarEdge SIM cards must be 3G GSM compatible. If the SIM is intended for use in Low Bandwidth mode it must have SMS capabilities.

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SE-SIM-R12-EU-S1 / SE-SIM-R12-EU-S2

SE-SIM-R05-EU-S5 / SE-SIM-R05-EU-S3

SolarEdge Data plans for High Bandwidth Mode

	SE-SIM-R05-EU-S5	SE-SIM-R05-EU-S3
Supported Systems	Commercial systems up to 100kW DC	Commercial systems up to 250kW DC
Monitoring	Continuous connection with 5 minute telemetry from all connected devices	
Number of Monitored Inverters with a Single GSM Plug-in	Up to 32, limited by the system DC size	
Plan Duration	5 year prepaid plan	

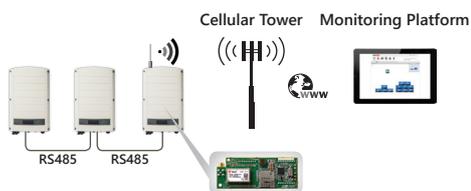
SolarEdge Data Plans for Low Bandwidth Mode

	SE-SIM-R12-EU-S1	SE-SIM-R12-EU-S2
Supported Systems	Residential systems: one inverter, up to 60 power optimizers, and 2 meters	Residential StorEdge systems: one inverter, up to 60 power optimizers, up to two batteries, and 2 meters
Monitoring	Data sampled every 15 minutes and sent to SolarEdge server every 4 hours (Low Bandwidth Mode)	
Number of Monitored Inverters with a Single GSM Plug-in	1	
Plan Duration	12 year prepaid plan	

GSM Plug-in Offering

	GSM Plug-in Inverter	GSM Plug-in Upgrade Kit	Data Plan
Description	Inverter with built-in GSM Plug-in	Replacement inverter communication board with pre-installed GSM Plug-in	SIM card with data plan
Supported Systems	Single and three phase inverters	Single and three phase inverters with CPU version 3.xxxx and above	Residential and StorEdge systems
Data Plan	Data plan purchased separately	Data plan purchased separately	Data sampled every 15 minutes and uploaded every 4 hours
Part Number	SExxxx-xx000NGx2 (-20°C) / SExxxx-xx000NGx4 (-40°C)	SE-1PH-GSM-K1 (for single phase inverters) / SE-3PH-GSM-K2 (for three phase inverters)	SE-SIM-R12-EU-S1 (residential) / SE-SIM-R12-EU-S2 (StorEdge)

HIGH BANDWIDTH MODE



LOW BANDWIDTH MODE

