

SUN2000 Solar Inverter Data Requirement for SmartDongle- 4G Application in FusinHome

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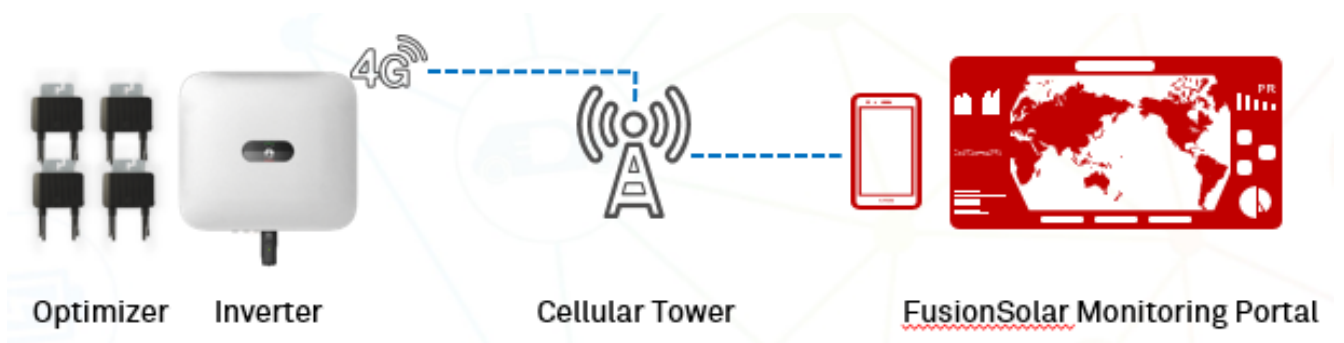
Number of the inverter connected via a single dongle		Up to 10
Data sample rate and monitoring		Data sampled every 5 minutes and sent to FusionSolar server continuously
Basic Data	Monthly Data - per Dongle	4 MB (Without optimizer) 6 MB (With optimizer)
	Monthly Data - per Inverter	1 MB for FusionHome single phase and three phase inverter
	Monthly Data- per Optimizer	0.15 MB
O&M Data	Dongle log data export and upgrade per month	2.2 MB
	Inverter log data export and upgrade per month	2.2 MB + 2 MB * N (Number of inverters in the same RS485 bus)
	IV Curve Scan (No optimizer)	0.02 MB

Note: SIM card type: Mini-sim card (15 mm * 25 mm)

Applied FusionHome inverters: SUN2000-2-5KTL-L0, SUN2000 3-10KTL-M0

For a typical single inverter application:

System Configuration		Monthly Data Requirement	
		Basic data	Including O&M data
No Optimizer	1* SUN2000-10KTL-M0 inverter 1* dongle	4MB + 1MB = 5MB	Up 12 MB
Partial Optimizer	1* SUN2000-10KTL-M0 inverter 4* optimizers 1*dongle	6 MB + 1 MB + 4 * 0.15 MB = 7.6 MB	Up to 14 MB
Full Optimizer	1* SUN2000-10KTL-M0 inverter, 40* optimizers 1* dongle	6 MB + 1 MB + 40 * 0.15 MB = 13 MB	Up to 20 MB



For a typical multiple inverters application:

System Configuration		Monthly Data Requirement	
		Basic data	Including O&M data
No Optimizer	10* SUN2000-10KTL-M0 inverters 1* dongle	4 MB + 10 * 1 MB = 14 MB	Up 39 MB
Partial Optimizer	10* SUN2000-10KTL-M0 inverters Each inverter connects 4 optimizers 1*dongle	6 MB + 10 * 1 MB + 40 * 0.15 MB = 22 MB	Up to 47 MB
Full Optimizer	10* SUN2000-10KTL-M0 inverters Each inverter connects 40* optimizers 1* dongle	6 MB + 10 * 1 MB + 40 * 10 * 0.15 MB = 76 MB	Up to 101 MB

