

## WHOLE HOUSE DE FILTER COMPARISON

	Filter	Price	RMS mV	Peak mV	GS
<b>Location 2</b>  <b>Noise Condition 1</b>  <b>Solar ON</b>  <b>02 Apr 2021</b>	No Filter	\$0	336	1365	95
	Sinetamer	\$1,189	331	1270	94
	Satic Power Perfect (ES1PN)	\$1,195	220	800	74
	1 Greenwave / phase (2500i)	\$60	272	960	79
	2 Greenwave / phase (2500i)	\$120	237	849	71
	1 GW / ph + 1 GW ph-ph	\$90	205	690	65
	2 GW / ph + 1 GW ph-ph	\$150	177	612	62
	2 GW / ph + 2 GW ph-ph	\$180	142	408	62
<b>Location 2</b>  <b>Noise Condition 2</b>  <b>Solar OFF</b>  <b>02 Apr 2021</b>	No Filter	\$0	130	473	47
	Sinetamer	\$1,189	130	479	46
	Satic Power Perfect (ES1PN)	\$1,195	215	663	53
	1 Greenwave / phase (2500i)	\$60	166	633	45
	2 Greenwave / phase (2500i)	\$120	205	663	48
	1 GW / ph + 1 GW ph-ph	\$90	231	643	56
	2 GW / ph + 1 GW ph-ph	\$150	263	696	67
	2 GW / ph + 2 GW ph-ph	\$180	210	538	64
<b>(For Solar OFF, the best choice was No Filter.)</b>					

\* Best performance for each noise condition is highlighted in green. \*

<b>Solar System</b>	Enphase micro inverters  300 feet from array to house panel 20 Amps per phase at time of testing
<b>Measurement Instrumentation</b>	EMF Services LNM-1 Line Noise Meter and Scope Interface (RMS & Peak mV) Stetzerizer Microsurge Meter (GS units) Owon SDS7102 oscilloscope (waveform and spectrum observation) PicoScope 2204A oscilloscope (timed logging)

These results represent performance at one test site only. Performance at different sites and under different line noise conditions may differ. Results from additional test sites will be forthcoming.

**EMF SERVICES LLC** is not a seller of line noise (DE) filters and has no financial interest in any of the filters mentioned in this comparative evaluation.

WHOLE HOUSE DE FILTER COMPARISON  
Using EMF SERVICES LNM-1 Line Noise Meter and PicoScope  
PEAK NOISE VOLTS (1 Volt = 1000 mV)

02 APR 2021  
2 PM EDT  
Solar System ON

