

WHOLE HOUSE DE FILTER COMPARISON

Page	#	Filter	Peak V	RMS mV	GS	GW mV	Confirm Baseline Peak V
		Baseline - No Filter	2.15	438	143	162	
Leg Monitored	1	Sinetamer S8070A11S1 (new)	2.05	435	140	212	2.15
	2	Sinetamer E202011S1 (old)	1.95	390	130	158	2.15
	3	Satic Power Perfect Box (ES1PN)	1.00	325	76	52	2.16
	4	RxDNA-V2X	1.25	323	76	53	2.16
	5a	EMF Safe PQ 2 - full	0.500	205	80	96	2.16
	5b	EMF Safe PQ 2 - partial	0.700	254	87	98	2.14
	6	Satic Power Perfect Super Duty	0.390	180	55	29	2.14
	7	EMF Safe PQ1 (Mk1)	1.00	278	77	64	2.14
	8	Greenwave 2500i					
	Noise Sources On	8a	1 GW / phase	1.00	305	82	63
8b		2 GW / phase	0.780	250	72	57	2.07
8c		1 GW / ph + 1 GW ph-ph	0.625	260	72	62	2.10
8d		1 GW / ph + 2 GW ph-ph	0.480	210	65	48	2.05
8e		2 GW / ph + 1 GW ph-ph	0.580	220	72	61	2.10
8f		2 GW / ph + 2 GW ph-ph	0.420	180	67	58	2.10
		**** Power Off - No Filter ****	-	-	-	-	-

Location	Hadley Rd, Lapeer, MI	Date	07/09/2022
Source Info	Enphase micro-inverters, 300 feet from array to house panel		
Measurement Instrumentation	EMF Services LNM-1 Line Noise Meter and Scope Interface (RMS & Peak mV) Stetzerizer Microsurge Meter (GS units) Greenwave Broadband EMI Meter Owon SDS7102 oscilloscope (waveform and spectrum observation) PicoScope 2204A oscilloscope (timed logging, waveform and spectrum observation)		

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.

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		Baseline - No Filter	2.00	529	1778	1972	
Leg Monitored	1	Sinetamer S8070A11S1 (new)	1.67	580	1772	1972	
	2	Sinetamer E202011S1 (old)	1.73	594	1800	1979	
	3	Satic Power Perfect Box (ES1PN)	1.19	202	303	404	
	4	RxDNA-V2X	1.49	361	1660	1773	
	5a	EMF Safe PQ 2 - full	0.980	239	800	1060	
	5b	EMF Safe PQ 2 - partial	0.970	200	570	780	
	6	Satic Power Perfect Super Duty	1.03	230	690	961	
	7	EMF Safe PQ1 (Mk1)	0.850	185	400	536	
	8	Greenwave 2500i					
	Noise Sources On	8a	1 GW / phase	1.04	240	670	880
8b		2 GW / phase	0.920	246	770	1045	
8c		1 GW / ph + 1 GW ph-ph	1.10	240	790	1070	
8d		1 GW / ph + 2 GW ph-ph	-	-	-	-	
8e		2 GW / ph + 1 GW ph-ph	0.897	260	948	1224	
8f		2 GW / ph + 2 GW ph-ph	0.890	254	1020	1300	
Pool Pump							
Upstairs AC							
		**** Power Off - No Filter ****	-	-	-	-	

Location	Cherry Laurel Drive, Fort Myers, FL	Date	06/30/2022
Source Info	Pentair Intelliflo VSF pool pump		
Measurement Instrumentation	EMF Services LNM-1 Line Noise Meter and Scope Interface (RMS & Peak mV) Stetzerizer Microsurge Meter (GS units) Greenwave Broadband EMI Meter Owon SDS7102 oscilloscope (waveform and spectrum observation) PicoScope 2204A oscilloscope (timed logging, waveform and spectrum observation)		

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Page	#	Filter	Peak V	RMS mV	GS	GW mV	Confirm Baseline Peak V
Leg Monitored Leg B Noise Sources On Grid No Loads		Baseline - No Filter	1.15	145	430	298	
	1	Sinetamer S8070A11S1	1.00	190	57	42	1.15
	2	Sinetamer E202011S1	0.98	190	63	43	1.15
	3	Satic Power Perfect Box (ES1PN)	1.10	225	47	18	1.16
	4	RxDNA-V2X	1.13	210	86	38	1.21
	5a	EMF Safe PQ 2 - full	0.830	237	49	21	1.19
	5b	EMF Safe PQ 2 - partial	1.75	400	65	23	1.84
	6	Satic Power Perfect Super Duty	0.846	190	50	19	1.10
	7	EMF Safe PQ1 (Mk1)	0.888	265	51	19	1.10
	8	Greenwave 2500i					
	8a	1 GW / phase	1.70	385	81	27	1.80
	8b	2 GW / phase	1.50	410	76	25	1.80
	8c	1 GW / ph + 1 GW ph-ph	1.50	340	68	25	1.25
	8d	1 GW / ph + 2 GW ph-ph					
	8e	2 GW / ph + 1 GW ph-ph	1.50	310	61	24	1.55
	8f	2 GW / ph + 2 GW ph-ph	0.750	200	53	22	1.28
		**** Power Off - No Filter ****					
	8g	0 GW / ph + 1 GW Ph-Ph	1.60	280	465	279	1.74
	8h	0 GW / ph + 2 GW ph-ph	0.99	240	484	292	1.80

Location	Hoffmeyer - Kingston Springs, Tennessee	Date	7/3/2022
Source Info	Interesting to not the fluctuating LNM readings from the grid, both peak and RMS. Note The baseline continuously raised through the whole round of testing. started 1.15 - 2.00 V		
Measurement Instrumentation	EMF Services LNM-1 Line Noise Meter and Scope Interface (RMS & Peak mV) Stetzerizer Microsurge Meter (GS units) Greenwave Broadband EMI Meter Owon SDS7102 oscilloscope (waveform and spectrum observation) PicoScope 2204A oscilloscope (timed logging)		

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