

WHOLE HOUSE DE FILTER COMPARISON

Page 1	#	Filter	Peak V	RMS mV	GS	GW mV	Confirm Baseline Peak V
		Baseline - No Filter	2.36	430	160	132	
Leg Monitored	1	Sinetamer S8070A11S1 (new)	2.48	435	156	139	
	2	Sinetamer E202011S1 (old)	2.44	435	154	138	
	3	Satic Power Perfect Box (ES1PN)	1.36	322	74	16	
	4	RxDNA-V2X	2.01	381	86	31	
	5a	EMF Safe PQ 2 - full	0.768	412	49	12	
	5b	EMF Safe PQ 2 - partial					
	6	Satic Power Perfect Super Duty	0.553	173	47	11	
	7	EMF Safe PQ1 (Mk1)	1.83	349	85	21	
	8	Greenwave 2500i					
	Noise Sources On	8a	1 GW / phase				
8b		2 GW / phase					
8c		1 GW / ph + 1 GW ph-ph					
8d		1 GW / ph + 2 GW ph-ph					
8e		2 GW / ph + 1 GW ph-ph					
8f		2 GW / ph + 2 GW ph-ph	0.609	188	12	48	
		**** Power Off - No Filter ****					

Location	Hadley Rd, Lapeer, MI	Date	07/18/22
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.

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Page 2	#	Filter	Peak V	RMS mV	GS	GW mV	Confirm Baseline Peak V	
Leg Monitored _____ A Noise Sources On _____ Solar _____ _____ _____ _____		Baseline - No Filter	2.46		165	174		
	1	Sinetamer S8070A11S1 (new)	2.52	472	173	104		
	2	Sinetamer E202011S1 (old)	2.70	470	184	105		
	3	Satic Power Perfect Box (ES1PN)	1.57	355	81	18		
	4	RxDNA-V2X	2.25	424	96	37		
	5a	EMF Safe PQ 2 - full	0.760	229	50	15		
	5b	EMF Safe PQ 2 - partial	1.05	304	61	16		
	6	Satic Power Perfect Super Duty	0.591	186	50	12		
	7	EMF Safe PQ1 (Mk1)	1.89	390	91	22		
	8	Greenwave 2500i						
	8a	1 GW / phase	2.51	440	108	31		
	8b	2 GW / phase	1.60	370	82	20		
	8c	1 GW / ph + 1 GW ph-ph	1.26	320	69	16		
	8d	1 GW / ph + 2 GW ph-ph						
	8e	2 GW / ph + 1 GW ph-ph	0.840	280	59	15		
	8f	2 GW / ph + 2 GW ph-ph	0.590	208	50	14		
			**** Power Off - No Filter ****					

Location	Hadley Rd, Lapeer, MI	Date	07/18/22
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)		

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Page 3	#	Filter	Peak V	RMS mV	GS	GW mV	Confirm Baseline Peak V	
Leg Monitored <u> A </u> Noise Sources On <u> No Solar </u> <u> No VFD </u> <u> </u> <u> </u>		Baseline - No Filter	1.35		98	135		
	1	Sinetamer S8070A11S1 (new)	1.13	135	96	56		
	2	Sinetamer E202011S1 (old)	1.15	135	96	56		
	3	Satic Power Perfect Box (ES1PN)	0.520	186	37	13	0.990	
	4	RxDNA-V2X	0.470	125	46	46	0.910	
	5a	EMF Safe PQ 2 - full	0.480	200	38	18	0.855	
	5b	EMF Safe PQ 2 - partial						
	6	Satic Power Perfect Super Duty	0.550	225	45	14	0.840	
	7	EMF Safe PQ1 (Mk1)	0.630	199	43	16	0.830	
	8	Greenwave 2500i						
	8a	1 GW / phase						
	8b	2 GW / phase						
	8c	1 GW / ph + 1 GW ph-ph						
	8d	1 GW / ph + 2 GW ph-ph						
	8e	2 GW / ph + 1 GW ph-ph						
	8f	2 GW / ph + 2 GW ph-ph	0.650	255	49	16		
			**** Power Off - No Filter ****					

Location	Hadley Rd, Lapeer, MI	Date	07/18/22
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)		

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Page 4	#	Filter	Peak V	RMS mV	GS	GW mV	Confirm Baseline Peak V
		Baseline - No Filter	0.990		102	140	
Leg Monitored	1	Sinetamer S8070A11S1 (new)	0.760	120	81	65	1.00
	2	Sinetamer E202011S1 (old)	0.770	120	82	55	1.00
	3	Satic Power Perfect Box (ES1PN)	0.640	208	41	13	1.00
	4	RxDNA-V2X	0.380	124	46	36	1.00
	5a	EMF Safe PQ 2 - full	0.510	218	38	15	
	5b	EMF Safe PQ 2 - partial	0.640		41	15	0.900
	6	Satic Power Perfect Super Duty	0.600	235	45	14	0.900
	7	EMF Safe PQ1 (Mk1)	0.535	183	40	15	0.900
	8	Greenwave 2500i					
	8a	1 GW / phase	0.525	162	55	26	0.900
Noise Sources On	8b	2 GW / phase					
	8c	1 GW / ph + 1 GW ph-ph	0.560	200	41	17	0.980
	8d	1 GW / ph + 2 GW ph-ph	0.430	180	38	17	1.01
	8e	2 GW / ph + 1 GW ph-ph	0.595	215	39	16	0.905
	8f	2 GW / ph + 2 GW ph-ph	0.540	230	46	17	0.900
		**** Power Off - No Filter ****					

Location	Hadley Rd, Lapeer, MI	Date	07/18/22
Source Info	Enphase micro-inverters, 300 feet from array to house panel		
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Page 5	#	Filter	Peak V	RMS mV	GS	GW mV	Confirm Baseline Peak V	
Leg Monitored Noise Sources On _____ _Solar 14A_ _Geo VFD_ _____ _____		Baseline - No Filter	1.89		196	220		
	1	Sinetamer S8070A11S1 (new)	1.89	385	167	120		
	2	Sinetamer E202011S1 (old)	1.94	385	170	120		
	3	Satic Power Perfect Box (ES1PN)	1.12	279	68	19	1.97	
	4	RxDNA-V2X	1.65	340	88	48	1.97	
	5a	EMF Safe PQ 2 - full	0.625	220	50	16	1.99	
	5b	EMF Safe PQ 2 - partial	0.825	235	52	17		
	6	Satic Power Perfect Super Duty	0.530	187	46	15		
	7	EMF Safe PQ1 (Mk1)	1.45	309	79	23	1.91	
	8	Greenwave 2500i						
	8a	1 GW / phase						
	8b	2 GW / phase	1.33	290	73	25	1.94	
	8c	1 GW / ph + 1 GW ph-ph	0.870	243	55	20		
	8d	1 GW / ph + 2 GW ph-ph	0.630	227	52	18	1.99	
	8e	2 GW / ph + 1 GW ph-ph	0.680	239	52	20		
	8f	2 GW / ph + 2 GW ph-ph	0.554	197	49	18	1.95	
			**** Power Off - No Filter ****					

Location	Hadley Rd, Lapeer, MI	Date	07/18/22
Source Info	Enphase micro-inverters, 300 feet from array to house panel		
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Page 6	#	Filter	Peak V	RMS mV	GS	GW mV	Confirm Baseline Peak V	
Leg Monitored <u> A </u> Noise Sources On <u> Solar 14A </u> <u> Geo VFD </u> <u> </u> <u> </u>		Baseline - No Filter	2.13		200	233		
	1	Sinetamer S8070A11S1 (new)	2.28	420	187	130		
	2	Sinetamer E202011S1 (old)	2.21	421	193	133		
	3	Satic Power Perfect Box (ES1PN)	1.30	315	70	19		
	4	RxDNA-V2X	1.93	391	98	52		
	5a	EMF Safe PQ 2 - full	0.664	240	52	18		
	5b	EMF Safe PQ 2 - partial	0.940	266	55	21		
	6	Satic Power Perfect Super Duty	0.590	198	48	15		
	7	EMF Safe PQ1 (Mk1)	1.60	345	84	25		
	8	Greenwave 2500i						
	8a	1 GW / phase						
	8b	2 GW / phase						
	8c	1 GW / ph + 1 GW ph-ph	1.12	279	57	19	2.40	
	8d	1 GW / ph + 2 GW ph-ph	0.690	229	49	17	2.40	
	8e	2 GW / ph + 1 GW ph-ph	0.769	273	54	17	2.36	
	8f	2 GW / ph + 2 GW ph-ph	0.620	220	50	16	2.37	
			**** Power Off - No Filter ****					

Location	Hadley Rd, Lapeer, MI	Date	07/18/22
Source Info	Enphase micro-inverters, 300 feet from array to house panel		
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