$M_{12}.2$

$M_8.(A_4 \times 2)$ $\leq M_8.(S_4 \times 2)$	990	$1a^+ + 11ab + 45a^- + 54a^\pm + 55a^+ + 66a^\pm$ $+ 99a^- + 120a^\pm + 144a^\pm$	13

Character Numbers: [1, 3, 6, 7, 8, 9, 12, 13, 15, 16, 17, 18, 19]

	S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}	S_{11}	S_{12}	S_{13}
χ_1	1	1	12	16	16	48	64	64	96	96	192	192	192
χ_2	1	1	-6	-8	-8	12	16	16	24	24	-24	-24	-24
χ_3	1	-1	0	8	-8	0	16	-16	8	-8	16	0	-16
χ_4	1	1	$4-2r5$	$2+2r5$	$2+2r5$	$2-6r5$	$6+2r5$	$6+2r5$	$-6+2r5$	$-6+2r5$	$-14-2r5$	16	$-14-2r5$
χ_5	1	1	$4+2r5$	$-4b5$	$-4b5$	$2+6r5$	$6-2r5$	$6-2r5$	$-6-2r5$	$-6-2r5$	$-14+2r5$	16	$-14+2r5$
χ_6	1	1	-6	4	4	12	4	4	-12	-12	12	-24	12
χ_7	1	1	6	4	4	0	-8	-8	12	12	0	-24	0
χ_8	1	-1	0	4	-4	0	-8	8	12	-12	-24	0	2
χ_9	1	1	2	-4	-4	-12	4	4	-4	-4	12	-8	12
χ_{10}	1	-1	0	$-2-2r3$	$2+2r3$	0	$4+2r3$	$-4-2r3$	$-6+6r3$	$6-6r3$	-6	0	6
χ_{11}	1	-1	0	$-2+2r3$	$2-2r3$	0	$4-2r3$	$-4+2r3$	$-6-6r3$	$6+6r3$	-6	0	6
χ_{12}	1	1	-4	-1	-1	0	-8	-8	2	2	0	16	0
χ_{13}	1	-1	0	-1	1	0	-8	8	2	-2	16	0	-16

Ramanujan Graphs: [2, 3, 4, 5, 6], [2, 3, 4, 5, 6, 7], [2, 3, 4, 5, 6, 7, 8], [2, 3, 4, 5, 6, 7, 8, 9,

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