The group G is isomorphic to the group labelled by [32, 48] in the Small Groups library.
Ordinary character table of $G \cong$ C2 x ((C4 x C2) : C2):

	$1a$	$2a$	$2b$	$4a$	$2c$	$2d$	$4b$	$4c$	$2e$	$4d$	$2f$	$4e$	$4f$	$2g$	$2h$	$4g$	$4h$	$4i$	$4j$	$2i$
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	−1	−1	−1	−1	1	1	1	1	1	1	1	−1	−1	−1	−1	−1	−1	1	1
χ_3	1	−1	−1	−1	1	1	1	1	−1	1	−1	−1	−1	1	−1	1	1	1	−1	−1
χ_4	1	−1	−1	1	−1	1	1	−1	1	−1	1	−1	1	−1	1	−1	1	1	−1	−1
χ_5	1	−1	−1	1	1	1	1	−1	−1	−1	−1	1	1	1	1	1	−1	−1	1	1
χ_6	1	−1	1	−1	−1	1	−1	1	1	−1	−1	1	−1	−1	1	1	−1	1	1	−1
χ_7	1	−1	1	−1	1	1	−1	1	−1	−1	1	−1	−1	1	1	−1	1	−1	−1	1
χ_8	1	−1	1	1	−1	1	−1	−1	1	1	−1	−1	1	−1	−1	1	1	−1	−1	1
χ_9	1	−1	1	1	1	1	−1	−1	−1	1	1	1	1	1	−1	−1	−1	1	1	−1
χ_{10}	1	1	−1	−1	−1	1	−1	−1	−1	1	1	1	−1	−1	1	1	1	−1	1	−1
χ_{11}	1	1	−1	−1	1	1	−1	−1	1	1	−1	−1	−1	1	1	−1	−1	1	−1	1
χ_{12}	1	1	−1	1	−1	1	−1	1	−1	−1	1	−1	1	−1	−1	1	−1	1	−1	1
χ_{13}	1	1	−1	1	1	1	−1	1	1	−1	−1	1	1	1	−1	−1	1	−1	1	−1
χ_{14}	1	1	1	−1	−1	1	1	−1	−1	−1	−1	1	−1	−1	−1	−1	1	1	1	1
χ_{15}	1	1	1	−1	1	1	1	−1	1	−1	1	−1	−1	1	−1	1	−1	−1	−1	−1
χ_{16}	1	1	1	1	−1	1	1	1	−1	1	−1	−1	1	−1	1	−1	−1	−1	−1	−1
χ_{17}	2	0	0	$-2*E(4)$	−2	−2	0	0	0	0	0	$2*E(4)$	$2*E(4)$	2	0	0	0	0	$-2*E(4)$	0
χ_{18}	2	0	0	$2*E(4)$	−2	−2	0	0	0	0	0	$-2*E(4)$	$-2*E(4)$	2	0	0	0	0	$2*E(4)$	0
χ_{19}	2	0	0	$-2*E(4)$	2	−2	0	0	0	0	0	$-2*E(4)$	$2*E(4)$	−2	0	0	0	0	$2*E(4)$	0
χ_{20}	2	0	0	$2*E(4)$	2	−2	0	0	0	0	0	$2*E(4)$	$-2*E(4)$	−2	0	0	0	0	$-2*E(4)$	0

Trivial source character table of $G \cong$ C2 x ((C4 x C2) : C2) at $p = 2$:

Normalisers N_i	N_1	N_2	N_3	N_4	N_5	N_6	N_7	N_8	N_9	N_{10}	N_{11}	N_{12}
p-subgroups of G up to conjugacy in G	P_1	P_2	P_3	P_4	P_5	P_6	P_7	P_8	P_9	P_{10}	P_{11}	P_{12}
Representatives $n_j \in N_i$	$1a$	$1a$	$1a$	$1a$	$1a$	$1a$	$1a$	$1a$	$1a$	$1a$	$1a$	$1a$
$1\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+1\cdot\chi_{13}+1\cdot\chi_{14}+1\cdot\chi_{15}+1\cdot\chi_{16}+2\cdot\chi_{17}+2\cdot\chi_{18}+2\cdot\chi_{19}+2\cdot\chi_{20}$	32	0	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+1\cdot\chi_{13}+1\cdot\chi_{14}+1\cdot\chi_{15}+1\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{19}+0\cdot\chi_{20}$	16	16	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+1\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+2\cdot\chi_{19}+2\cdot\chi_{20}$	16	0	16	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+1\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}+0\cdot\chi_{16}+2\cdot\chi_{17}+2\cdot\chi_{18}+0\cdot\chi_{19}+0\cdot\chi_{20}$	16	0	0	16	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}+1\cdot\chi_{16}+1\cdot\chi_{17}+1\cdot\chi_{18}+1\cdot\chi_{19}+1\cdot\chi_{20}$	16	0	0	0	8	0	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+1\cdot\chi_{14}+0\cdot\chi_{15}+0\cdot\chi_{16}+1\cdot\chi_{17}+1\cdot\chi_{18}+1\cdot\chi_{19}+1\cdot\chi_{20}$	16	0	0	0	0	8	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+1\cdot\chi_{14}+1\cdot\chi_{15}+1\cdot\chi_{16}+1\cdot\chi_{17}+1\cdot\chi_{18}+1\cdot\chi_{19}+1\cdot\chi_{20}$	16	0	0	0	0	0	8	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+1\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}+0\cdot\chi_{16}+1\cdot\chi_{17}+1\cdot\chi_{18}+1\cdot\chi_{19}+1\cdot\chi_{20}$	16	0	0	0	0	0	0	8	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+1\cdot\chi_{13}+1\cdot\chi_{14}+1\cdot\chi_{15}+1\cdot\chi_{16}+1\cdot\chi_{17}+1\cdot\chi_{18}+1\cdot\chi_{19}+1\cdot\chi_{20}$	16	0	0	0	0	0	0	0	8	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}+0\cdot\chi_{16}+1\cdot\chi_{17}+1\cdot\chi_{18}+1\cdot\chi_{19}+1\cdot\chi_{20}$	16	0	0	0	0	0	0	0	0	8	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+1\cdot\chi_{14}+1\cdot\chi_{15}+1\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{19}+0\cdot\chi_{20}$	8	8	0	0	0	0	8	0	0	0	8	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+1\cdot\chi_{19}+1\cdot\chi_{20}$	8	0	8	0	0	0	4	0	0	4	0	4
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}+0\cdot\chi_{16}+1\cdot\chi_{17}+1\cdot\chi_{18}+0\cdot\chi_{19}+0\cdot\chi_{20}$	8	0	0	8	0	0	4	0	0	4	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{19}+0\cdot\chi_{20}$	8	8	0	0	0	0	0	0	0	8	0	0
$1\cdot\chi_1+1\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}+1\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{19}+0\cdot\chi_{20}$	8	8	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+1\cdot\chi_{14}+0\cdot\chi_{15}+0\cdot\chi_{16}+0\cdot\chi_{17}+0\cdot\chi_{18}+0\cdot\chi_{19}+0\cdot\chi_{20}$	8	8	0	0	0	0	0	0	0	0	0	0

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong$ C2
$P_3 = Group([(1,5)(2,9)(3,12)(4,14)(6,16)(7,18)(8,20)(10,22)(11,23)(13,25)(15,26)(17,27)(19,29)(21,30)(24,31)(28,32)]) \cong$ C2
$P_4 = Group([(1,16)(2,22)(3,25)(4,26)(5,6)(7,29)(8,30)(9,10)(11,31)(12,13)(14,15)(17,32)(18,19)(20,21)(23,24)(27,28)]) \cong$ C2
$P_5 = Group([(1,28)(2,24)(3,8)(4,7)(5,32)(6,17)(9,31)(10,11)(12,20)(13,21)(14,18)(15,19)(16,27)(22,23)(25,30)(26,29)]) \cong$ C2
$P_6 = Group([(1,32)(2,31)(3,20)(4,18)(5,28)(6,27)(7,14)(8,12)(9,24)(10,23)(11,22)(13,30)(15,29)(16,17)(19,26)(21,25)]) \cong$ C2
$P_7 = Group([(1,3)(2,7)(4,11)(5,12)(6,13)(8,17)(9,18)(10,19)(14,23)(15,24)(16,25)(20,27)(21,28)(22,29)(26,31)(30,32)]) \cong$ C2
$P_8 = Group([(1,9)(2,5)(3,29)(4,20)(6,22)(7,25)(8,14)(10,16)(11,32)(12,19)(13,18)(15,30)(17,31)(21,26)(23,28)(24,27)]) \cong$ C2
$P_9 = Group([(1,2)(3,19)(4,8)(5,9)(6,10)(7,13)(11,28)(12,29)(14,20)(15,21)(16,22)(17,24)(18,25)(23,32)(26,30)(27,31)]) \cong$ C2
$P_{10} = Group([(1,12)(2,18)(3,5)(4,23)(6,25)(7,9)(8,27)(10,29)(11,14)(13,16)(15,31)(17,20)(19,22)(21,32)(24,26)(28,30)]) \cong$ C2