

The group G is isomorphic to the group labelled by [50, 4] in the Small Groups library.
 Ordinary character table of $G \cong (C_5 \times C_5) : C_2$:

e	$5f$	$5g$	$5h$	$5i$	$5j$	$5k$
1	1	1	1	1	1	1
1	1	1	1	1	1	1
$-E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$
$+E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$
2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$
2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$
$-E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$	$E(5) + E(5)^4$
$+E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$
$-E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	2
$+E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	2
$+E(5)^3$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5) + E(5)^4$
$-E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5)^2 + E(5)^3$
$+E(5)^3$	$E(5)^2 + E(5)^3$	2	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$
$-E(5)^4$	$E(5) + E(5)^4$	2	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$

Trivial source character table of $G \cong (C_5 \times C_5) : C_2$ at $n = 2$:

$$P_1 = Group([()]) \cong 1$$

$$P_2 = \text{Group}([(1, 2)(3, 26)(4, 30)(5, 21)(6, 25)(7, 17)(8, 50)(9, 20)(10, 13)(11, 49)(12, 16)(14, 48)(15, 47)(18, 46)(19, 45)(22, 44)(23, 43)(24, 42)(27, 41)(28, 40)(29, 39)(31, 38)(32, 37)(33, 36)(34, 35)]) \cong C_2$$

$$N_1 = Group((1, 2), (3, 26), (4, 30), (5, 21), (6, 24), (7, 17), (8, 50), (9, 20), (10, 13), (11, 49), (12, 16), (13, 40), (14, 47), (15, 46), (16, 45), (17, 44), (18, 43), (19, 42), (20, 41), (21, 40), (22, 45), (23, 48), (24, 49), (25, 47), (26, 46), (27, 45), (28, 44), (29, 43), (30, 42), (31, 39), (32, 35), (33, 36), (34, 35), (35, 34), (36, 33), (37, 32), (38, 31), (39, 30), (40, 29), (41, 28), (42, 27), (43, 26), (44, 25), (45, 24), (46, 23), (47, 22), (48, 21), (49, 20), (50, 19), (51, 18), (52, 17), (53, 16), (54, 15), (55, 14), (56, 13), (57, 12), (58, 11), (59, 10), (60, 9), (61, 8), (62, 7), (63, 6), (64, 5), (65, 4), (66, 3), (67, 2), (68, 1), (69, 0)), \\ N_2 = Group((1, 2), (3, 26), (4, 30), (5, 21), (6, 25), (7, 17), (8, 50), (9, 20), (10, 13), (11, 49), (12, 16), (13, 44), (14, 48), (15, 47), (16, 45), (17, 42), (18, 41), (19, 39), (20, 38), (21, 37), (22, 34), (23, 33), (24, 36), (25, 35), (26, 34), (27, 33), (28, 32), (29, 31), (30, 30), (31, 29), (32, 28), (33, 27), (34, 26), (35, 25), (36, 24), (37, 23), (38, 22), (39, 21), (40, 20), (41, 19), (42, 18), (43, 17), (44, 16), (45, 15), (46, 14), (47, 13), (48, 12), (49, 11), (50, 10), (51, 9), (52, 8), (53, 7), (54, 6), (55, 5), (56, 4), (57, 3), (58, 2), (59, 1), (60, 0)), \\ \tilde{C}_2$$