Number of vertices $n = 6$.
Adjacencies of Graph

1. vertex 1 adjacent to 2 3 4 5
2. vertex 2 adjacent to 1 3 5 6
3. vertex 3 adjacent to 1 2 4 6
4. vertex 4 adjacent to 1 3 5 6
5. vertex 5 adjacent to 1 2 4 6
6. vertex 6 adjacent to 2 3 4 5

Size of automorphism group of the graph=48
Full group: $|Aut(polytope)| = 1536$
Restricted group: $|Aut(G) \times switch| = 1536$
Number of orbits for the full group : 2
List of orbits of facets for the full group: Total number of orbits = 2 Total number of facets = 56

1. Inequality 1 with incidence 24 and stabilizer of size 48. Orbit size is 32

(1,2) : 0	(1,3) : 0	(1,4) : 0	(1,5) : 0	(2,3) : 0	(2,5) : 1
(2,6) : 1	(3,4) : 0	(3,6) : 0	(4,5) : 0	(4,6) : 0	(5,6) : -1

2. Inequality 2 with incidence 16 and stabilizer of size 64. Orbit size is 24

(1,2) : -1	(1,3) : 0	(1,4) : 1	(1,5) : 0	(2,3) : 0	(2,5) : 0
(2,6) : 1	(3,4) : 0	(3,6) : 0	(4,5) : 0	(4,6) : 1	(5,6) : 0