

# VIKOR Decision Analysis Report

Generated by TOPSISX - Multi-Criteria Decision Making Tool

## Executive Summary

Total Alternatives Evaluated: 4

Analysis Method: VIKOR

Average Score: 0.5444

Score Range: 0.2291 - 0.7817

## Top 3 Recommendations

### Rank 1: A

Score: 0.7817

### Rank 2: B

Score: 0.6856

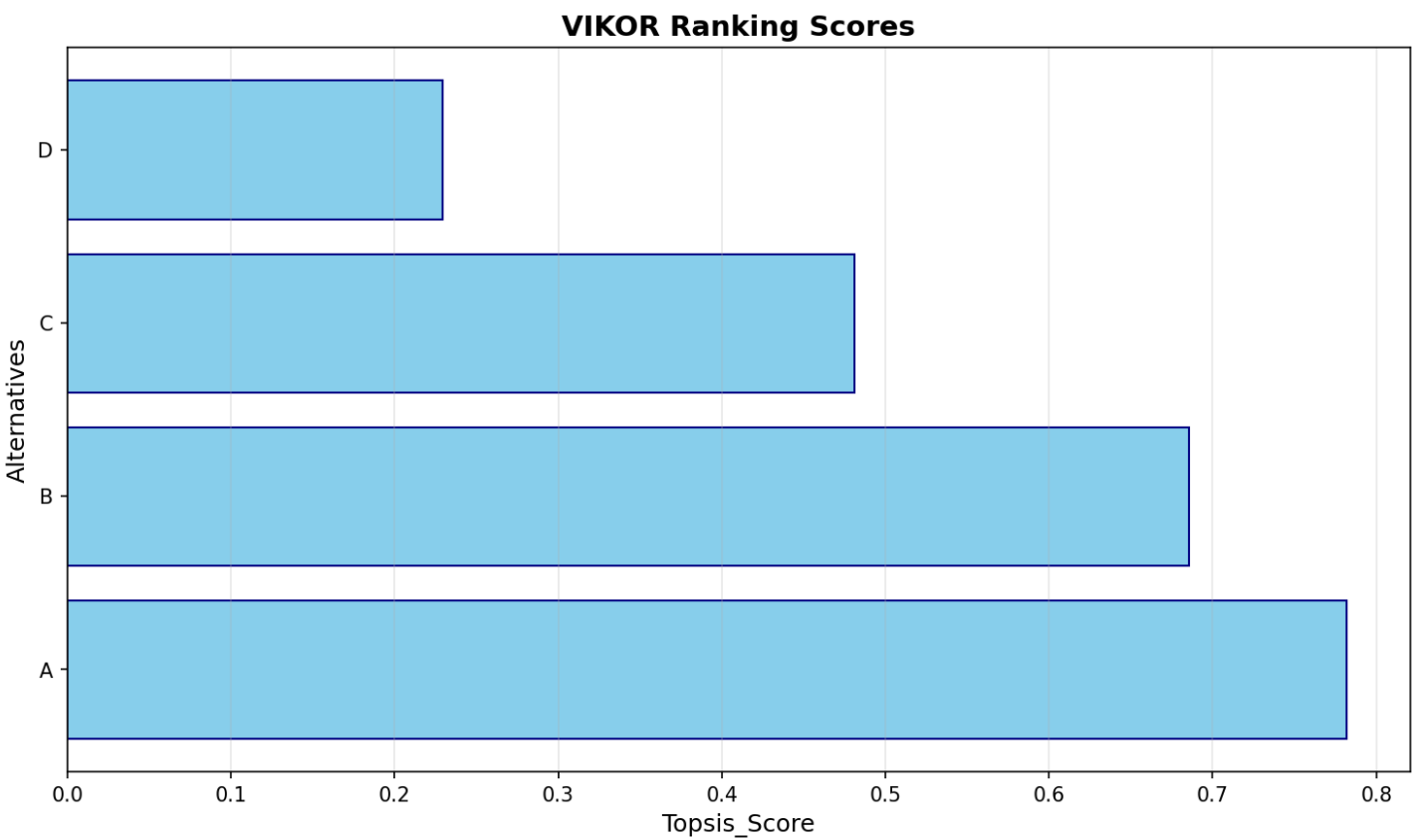
### Rank 3: C

Score: 0.4811

# Complete Rankings Table

Model	Price	Battery	Performance	Weight	Topsis_Score
A	60000	10	9	2.500	0.782
B	65000	9	8	2.200	0.686
C	55000	8	7	2.000	0.481
D	50000	6	6	1.800	0.229

# Visual Analysis



## Methodology

VIKOR (ViseKriterijumska Optimizacija I Kompromisno Resenje) is a multi-criteria decision making method that focuses on ranking and selecting from alternatives with conflicting criteria.

The method introduces the multi-criteria ranking index based on the particular measure of "closeness" to the "ideal" solution. It provides a maximum group utility of the majority and a minimum individual regret of the opponent.

Steps:

1. Calculate S (group utility) and R (individual regret)
2. Compute Q values using strategy weight  $v$
3. Rank alternatives by Q values
4. Propose compromise solution

Lower Q values indicate better alternatives.

*Generated by TOPSISX v0.1.4*

*<https://github.com/SuvitKumar003/ranklib>*