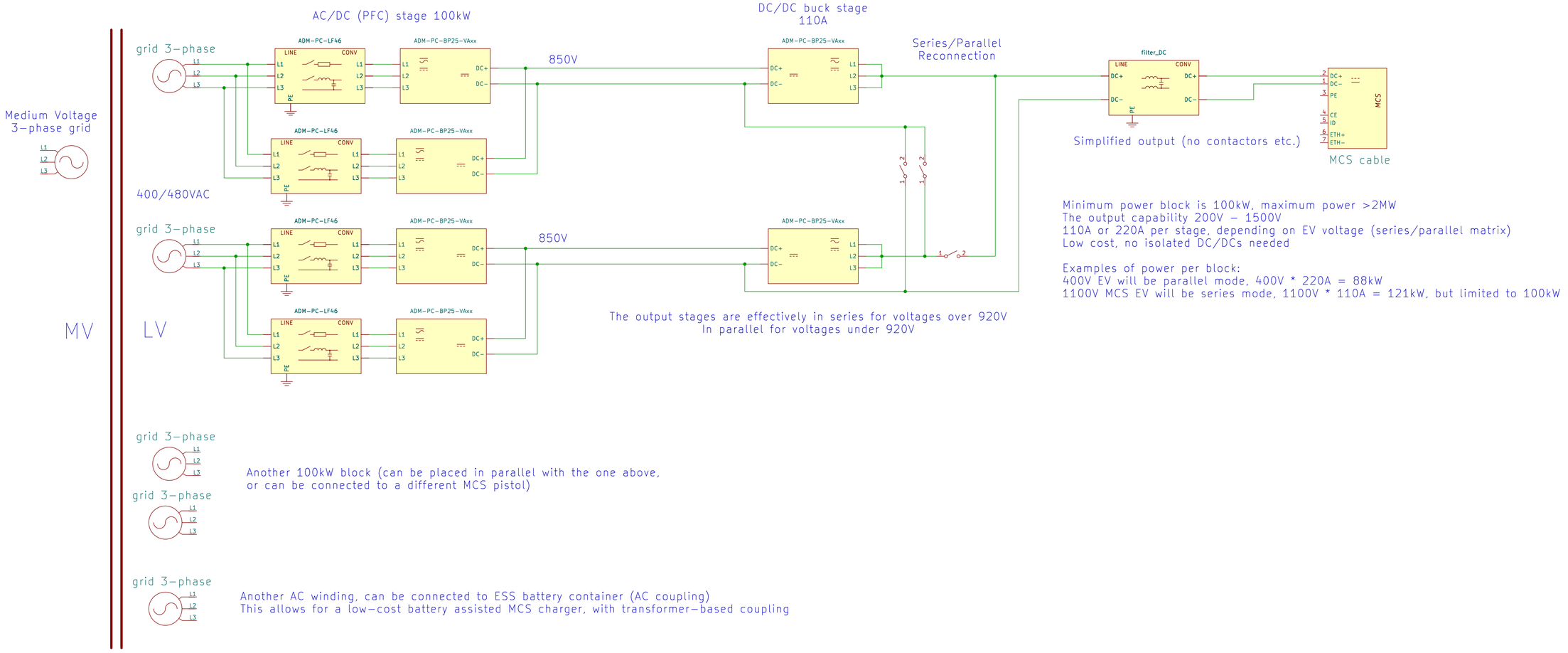
Megawatt Charging System with transformer-based isolation (200-1500V output)



Minimum power block is 100kW, maximum power >2MW
The output capability 200V - 1500V
110A or 220A per stage, depending on EV voltage (series/parallel matrix)
Low cost, no isolated DC/DCs needed

Examples of power per block:
400V EV will be parallel mode, 400V * 220A = 88kW
1100V MCS EV will be series mode, 1100V * 110A = 121kW, but limited to 100kW

Medium to Low Voltage transformer with multiple secondaries
Each secondary is insulated from each other
Provides step down from Medium Voltage, and isolation in one step