$$\begin{aligned} \{Q_{\alpha}, \overline{Q}_{\dot{\beta}}\} &= 2\sigma^{\mu}_{\alpha\dot{\beta}} P_{\mu} = -2i\sigma^{\mu}_{\alpha\dot{\beta}} \partial_{\mu} \\ \{Q_{\alpha}, Q_{\beta}\} &= 0 \\ \{\overline{Q}_{\dot{\alpha}}, \overline{Q}_{\dot{\beta}}\} &= 0 \end{aligned}$$