



Figure 7

The change in FR-dependent P700 oxidation kinetics and k_{fast}/k_{slow} after PSI photoinhibition induced by rSP illumination treatment for 30 min. P700 oxidation kinetics before (a) and after (b) rSP illumination treatment were obtained from three biologically independent leaves grown under LL-, ML-, and HL-conditions respectively, and averaged data are shown. From each P700 oxidation kinetics, k_{fast} (c), and k_{slow} (d) were calculated by fitting the P700 oxidation kinetics to the Double Gompertz function described in the main text. Data are shown as means with standard errors from independent biological replicates ($n = 3$). (e) and (f) shows an initial slope of k_{fast} and k_{slow} to the change in illuminated FR intensity, respectively. These data are shown as mean value with standard deviations and raw data ($n = 3$). To figure out the significance of growth light, rSP illumination, and their interaction to the change in k_{fast} $(FR-PFD)^{-1}$ and $k_{slow}(FR-PFD)^{-1}$, the general regression analysis was conducted, and the significance of those is indicated above the figures (**: $p < 0.01$, ***: $p < 0.001$, *n.s.*: not significant).