



### Figure 3

Photosynthetic characteristics in rice leaves grown under three different light conditions. Chl content (a), and Chl *a/b* ratio (b) and leaf area mass (c) are shown as box plots obtained by independent biological replicates ( $n = 6$ ), the central squares within the box indicate the mean value, and bars indicate the range of the maximum or minimum data within a  $1.5 \times$  interquartile range (IQR). The different characters above each data indicate the significant differences among the growth light conditions ( $p < 0.05$ ; Tukey-Kramer HSD test). The  $\text{CO}_2$  assimilation rate (d), stomatal conductance ( $g_s$ ) (e), and intercellular  $\text{CO}_2$  concentration (f) are shown. For the PSII photosynthetic parameters, the quantum yields of PSII [Y(II)] (g), non-photochemical quenching [Y(NPQ)] (h), and non-radiative decay [Y(NO)] (i) are shown. For PSI photosynthetic parameters, the quantum yields of PSI [Y(I)] (j), non-photochemical quenching at the donor side [Y(ND)] (k), and nonphotochemical quenching at the acceptor side [Y(NA)] (l) are shown. Data of photosynthetic activities are shown as means with standard errors. All data were obtained from independent biological replicates ( $n = 3$ ).