8.3.5 CDMA uplink

This is only available if CDMA UL selected.

Table 29: CDMA UL input parameters for the power control

Description	Symbol	Type	Unit	Comments
Target network noise rise		Scalar	dB	Specific level of noise that the network is willing to handle, when this level is reached it starts removing UEs to reduce its noise level
cell noise rise selection		Boolean	-	Select the algorithm that allow the cell selection based on a noise rise increased. If selected, then the measure of the noise rise per each cell is considered and the algorithm, recursively, tries to identify the number of affected cells due to a single source/cluster of interferers and remove users. If not selected, then the measure of the noise rise over the whole network is considered (See Section 8.7.6 for details)

Target cell noise rise		Scalar	dB	Only available when Cell noise rise selection is active. It is set to 0.1 dB by default. The “cell noise rise” algorithm will assess whether to drop users from any cell in which the noise rise exceeds the threshold indicated above. The default value of 0.1 dB has been chosen to ensure that the analysis does not disregard any cases of interfered cells, since users may also be dropped as the consequence of a low noise rise.
MS maximum transmit power		Scalar	dB	Maximum transmit power of the MS (i.e. the UE)
MS power control range		Scalar	dB	Span of the fluctuation of the power

PC convergence precision		Scalar	dB	In the uplink, each mobile station perfectly achieves the target C/I, Eb/N0_target, during the power control loop convergence, assuming that the maximum transmit (TX) power, max_MS_Tx_Pw, is not exceeded. Those mobile stations not able to achieve Eb/N0_target after convergence of the power control loop are considered in outage (i.e. they are dropped). The power control loop is considered to converge when all mobile stations are within the max_MS_Tx_Pw and their Tx power is adjusted by less than the “PC convergence precision” value for the last power balancing iteration.

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