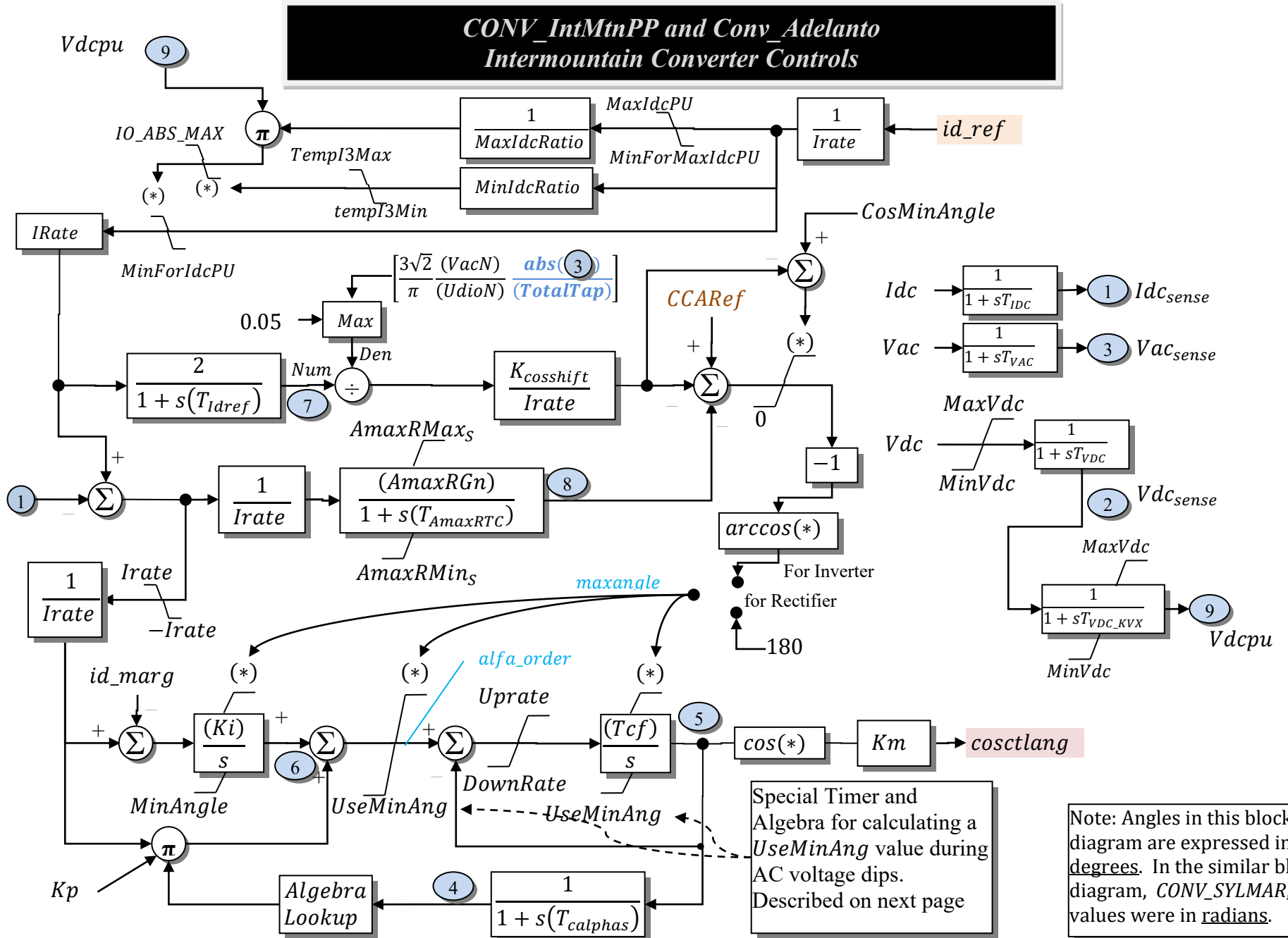
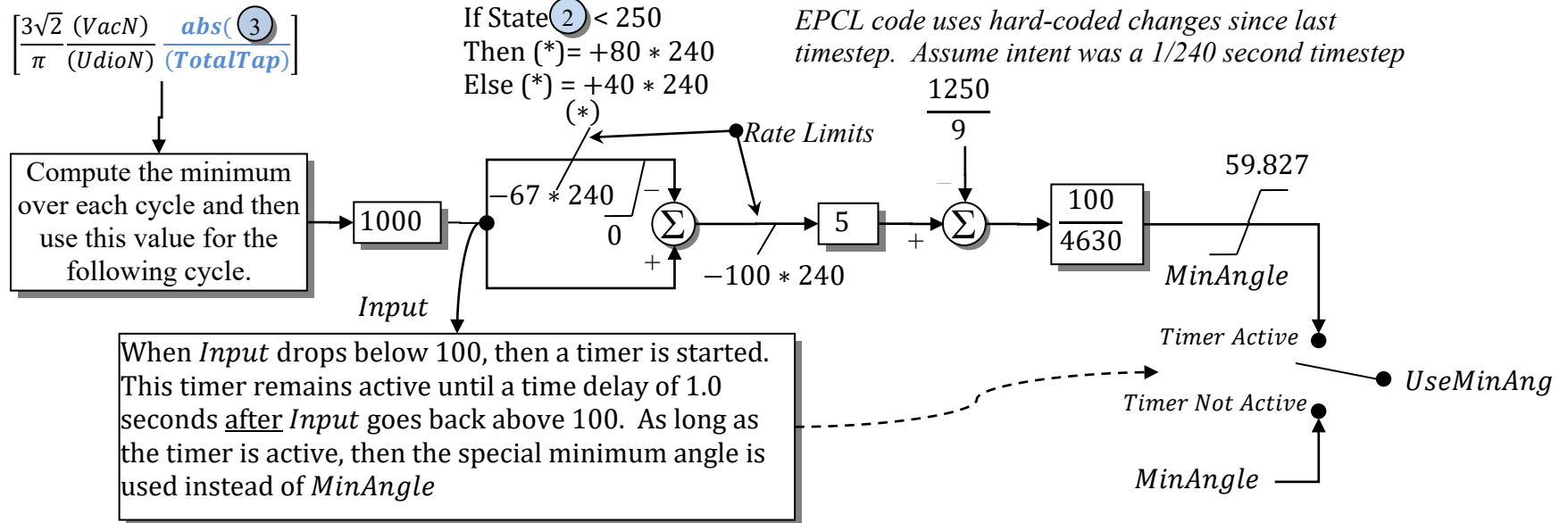
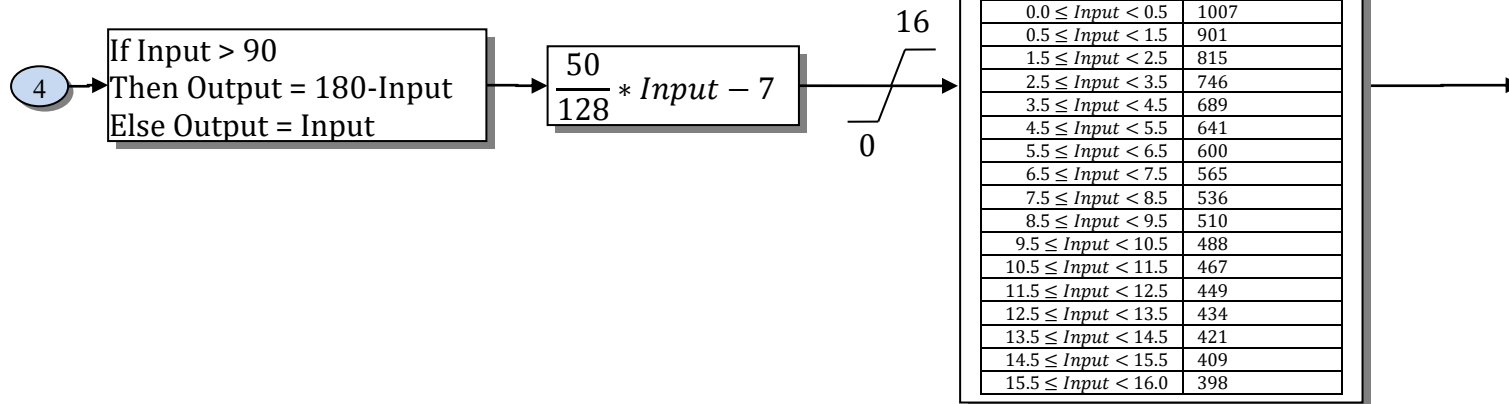




CONV_IntMtnPP and Conv_Adelanto Special Calculation of UseMinAng(only CONV_IntMtnPP)



CONV_IntMtnPP and Conv_Adelanto Algebra Lookup



CONV_IntMtnIPP and CONC_Adelanto parameters are all hard-coded based on the initial flow direction of the IPP DC Line. The parameters are mostly the same at the Intermountain and Adelanto ends of the DC line, with the exception of the parameters V_{acN} , U_{dioN} , and $K_{cosshift}$. The following table shows the differences.

Parameter	Intermountain End	Adelanto End
V_{acN}	206.28	202.43
U_{dioN}	278.58	273.38
T_{Idref}	0.01	
$MaxIdcPU$	10.0	
$MinForMaxIdcPU$	1.2	
$MaxIdcRatio$	0.6	
$MinIdcRatio$	0.3	
IO_ABS_MAX	2.4	
$templ3Max$	0.5	
$templ3Min$	0.3	
$MinForIdcPU$	0.1	
$MinAngle$	5 for rectifier	101 for inverter
id_margin	0.0 for rectifier	0.1 for inverter
K_m	1.0 for rectifier	-1.0 for inverter
T_{f_IDC}	0.001	
T_{f_VDC}	0.003	
T_{f_VAC}	0.0	
I_{rate}	1600	

Parameter	Intermountain End	Adelanto End
K_i	$\frac{-15032*1000*180}{65536*8333*(1/60/12)} = -3567.31$	
K_p	$\frac{-1000*180}{255*8333} = -0.084709277$	
$T_{calphas}$	0.003	
$CosMinAngle$	0.956 = (cosine of 17 degrees)	
$UpRate$	6	
$DownRate$	-3	
T_{cf}	1000	
$K_{cosshift}$	0.065	0.063
A_{maxRGn}	0.150	
$T_{AmaxRTC}$	0.012	
$A_{maxRMax}$	+0.0150	
$A_{maxRMin}$	-0.050	
$CCARef$	For inverter, initialize so State 5 is at the upper limit. For rectifier, = $CosMinAngle$	
$MaxVdc$	750.0	
$MinVdc$	-200.0	
T_{VDC_KVX}	0.010 if $V_{dc_{sense}}$ is decreasing 0.030 if rectifier and $V_{dc_{sense}}$ is increasing 0.040 if inverter and $V_{dc_{sense}}$ is increasing	