

Overview of the CMS Detector LV System - 19Oct04

Detector	Funct	# PSU Req'd	Pos	PSU / PSM	Tot.	PSM / C	# Crates (8 U)	Req Volts	Req Amps	Req Per Det	# pairs	Cross-section (mm*2)	Resistivity @ 75C (Ohm.km)	LV Cable	Voltage Drop V (RT)	Pericable W	Perlin W/m	Del Per	Del Per	Crate Power Req	/ Crate KW	Eff	Power	off	AC/DC Converters	Power / unit KW	I / unit A	AC Distribution	Power Req KW	AC-DC	Heat Dissipation	Cable KW	Total KW
			CAEN Unit											Length (m)				PSU W	Tot. KW	/ Module W		PSU KW	Power Req KW		Power Req KW			eff		Power Req KW	Power Req KW		
RE - RPCs	Power	648	A3009	12	54	5	10.8	5.0	2.0	10.0	648			15	1.0	2.0	0.1	12.0	7.8			0.70	11.1	0.89	12.5					1.4	3.3	1.3	6.0
		648	A3009	12	54	5	10.8	5.0	2.0	10.0	648			15	1.0	2.0	0.1	12.0	7.8			0.70	11.1	0.89	12.5					1.4	3.3	1.3	6.0
																									24.96			0.96	26.00		2.7	6.7	2.6