

MightyLaser Status

2011.01.19

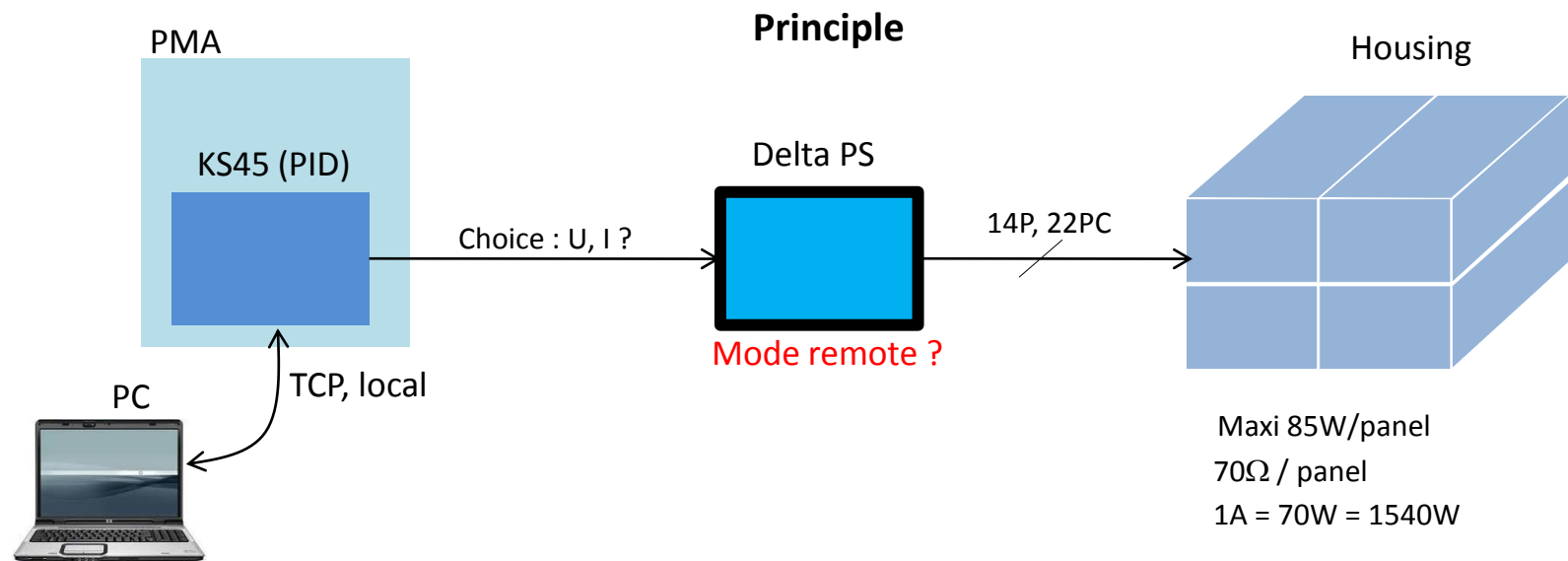
Tâche	Description	DR access required	
Setup on UPS	Lines 1,2 et 3 on UPS + Relays + BP Emergency	yes	Finished, see doc.
Interlock Laser	Design/Manufacturing Pending	During installing only	TBD before 14/02
Fibre Protection	Design/Manufacturing Pending	During installation only	TBD before 14/02 if possible
Temperature Regulation	PID parameters adjustment In progress : started 18.01.2011	yes	TBD before 24/01

TBD before 1st Shift 14 Février

Hub Corridor On UPS	Motors Back on IOLAN	Chiller Filter TBI	Cameras TBI on setup	Check "Recopie PZT1" Scope 2014
---------------------	----------------------	--------------------	----------------------	---------------------------------

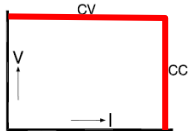
TBD depending on availabilities

HMI Motors	HMI Locking	Softs RS232	Model FPGA	Identification
------------	-------------	-------------	------------	----------------

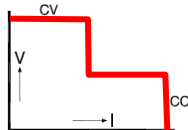


SM 1500 - series
1500 watts DC POWER SUPPLIES

SM 70-22 0 - 70 V 0 - 22 A
Thermalisation



Autoranging
SM 52-AR-60 0 - 26 V 0 - 60 A
Pump Diode 0 - 52 V 0 - 30 A



Nominal 36W →

Vmax
1A/panel →

U (V)	I (A)	Itot (A)	P (W)	Ptot (W)	W/m²
10	0,14	3,5	1,4	35	7,9
20	0,29	6,9	5,8	138	31,7
30	0,43	10,4	13,0	311	71,2
40	0,58	13,8	23,0	553	126,6
50	0,72	17,3	36,0	864	197,8
60	0,86	20,7	51,8	1244	284,9
63,65	0,92	22,0	58,3	1400	320,6
65	0,94	22,5	60,8	1460	334,3
70	1,01	24,2	70,6	1694	387,7
120	1,73	41,5	207,4	4977	1139,4

<1154

← Pmax
panel

Nota : no precise measurements up to now

Step 1 : Temp. sensor unchanged

Voltage steps applied on panels

PB : the sensor used for regulation is far from the breadboard and measures the table temp.

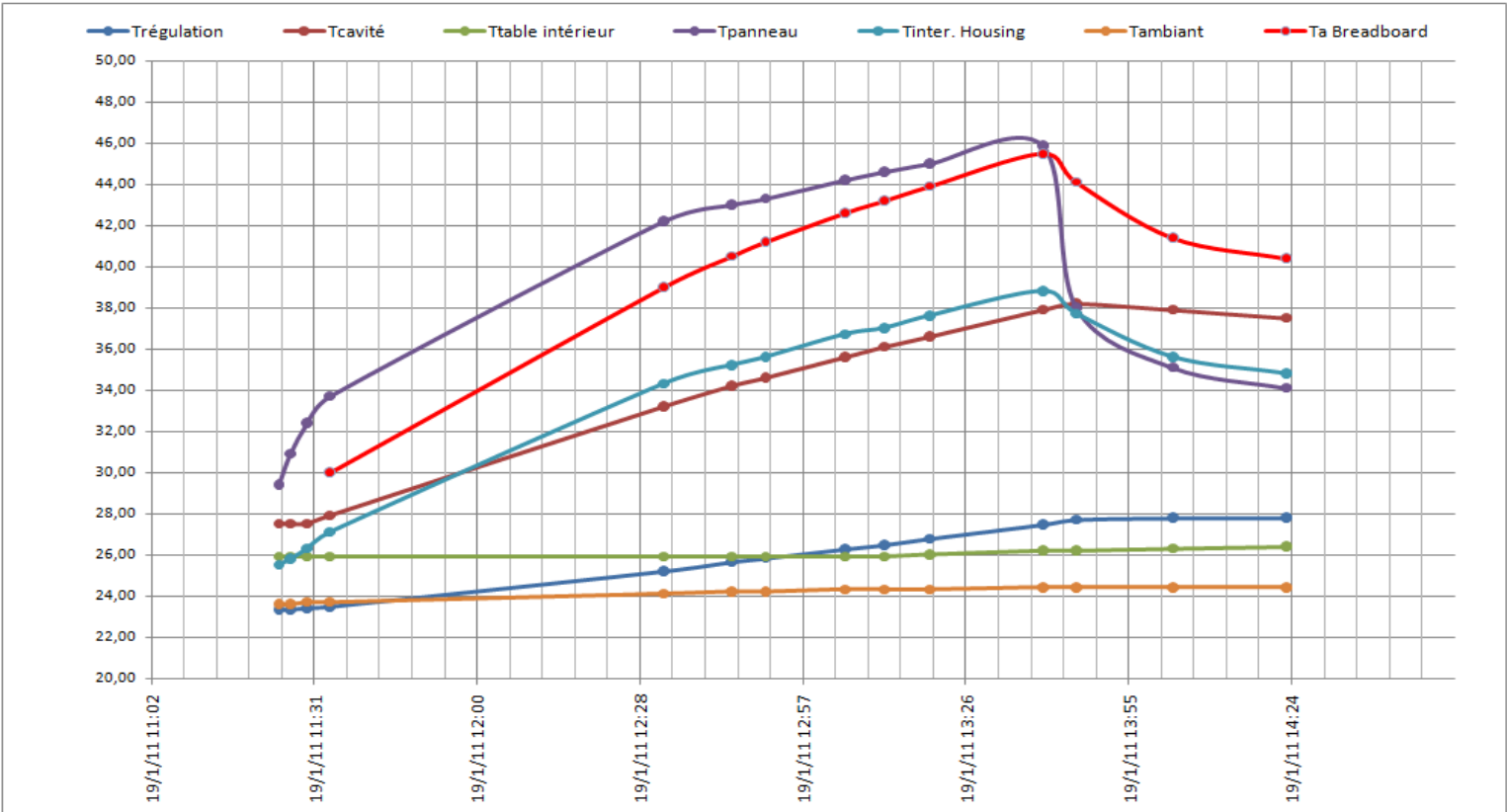
Nominal 36W →
Other tests →

U (V)	I (A)	Itot (A)	P (W)	Ptot (W)	W/m²
10	0,14	3,5	1,4	35	7,9
20	0,29	6,9	5,8	138	31,7
30	0,43	10,4	13,0	311	71,2
40	0,58	13,8	23,0	553	126,6
50	0,72	17,3	36,0	864	197,8
60	0,86	20,7	51,8	1244	284,9
63,65	0,92	22,0	58,3	1400	320,6
65	0,94	22,5	60,8	1460	334,3
70	1,01	24,2	70,6	1694	387,7
120	1,73	41,5	207,4	4977	1139,4

<1154

CHARGE UPS : 26%

Ustep = 67,8V - 22A



Step 2 : change Temp. sensors position

Cavity Pressure : $3,4 \cdot 10^{-8}$ to $1,4 \cdot 10^{-7}$ mbar