



# 1.1.2.11 Short Exposure High Power Sensors 1.1.2.11.3 Pulsed Power Mode

# 300mW to 10.000W

## **Features**

- No water cooling
- Measure up to 10kW •
- Cost Effective
- Diffuser for concentrated beams

L40(250)A-LP2-50



L40(500)A-LP2-DIF-35









If the full features of the Helios Plus or Ariel including protective cover, Profinet interface and pulse width measurement are not needed, similar performance can be obtained with the L40(250)A-LP2-50 and L40(500)A-LP2-DIF-35. The L40(250)A-LP2-50 has the same sensor as the Helios Plus. It can measure powers from short exposure from 500W up to 10,000W. The user measures the energy of the pulse and knowing the pulse width calculates the power (e.g. 5000J in a 0.5s pulse = 10,000W). If using the Centauri

and StarBright meters or Juno/Juno+/Juno-RS PC interfaces this can be calculated directly by inputting the laser pulse width into the Pulsed Power screen of the Meter/Interface or the equivalent StarLab screen and exposing the sensor to the power for the requisite pulse width. The meter will then directly give the power reading from the pulse energy measured. For lower powers, the L30C-LP2-26-SH will give similar performance for energies up to 2000J. For further information see pages 66 & 150.

250mm >94% fron 300mW - 4 250W for 5 30W for 6 20kW/cm <sup>2</sup>	1.5min, 150W for min, 40W continu	· 3min,	300mW -	µm <sup>(e)</sup> ckscatter from dif	fuser	LP2 0.25 – 2.2 Ø26mm	μm			
250mm >94% fron 300mW - 4 250W for 5 30W for 6 20kW/cm <sup>2</sup>	n 0.25 to 1.1µm 40W 1.5min, 150W for min, 40W continu	· 3min,	Ø35mm ~14% bao 300mW -	ckscatter from dif	fuser	Ø26mm	μm			
>94% from 300mW - 4 250W for 5 30W for 6r 20kW/cm <sup>2</sup>	40W 1.5min, 150W for min, 40W continu	· 3min,	~14% bad 300mW -		fuser					
300mW - 4 250W for 30W for 6r 20kW/cm <sup>2</sup>	40W 1.5min, 150W for min, 40W continu	· 3min,	300mW -		fuser	>94% fro	Ø26mm			
250W for <sup>-</sup> 30W for 6r 20kW/cm <sup>2</sup>	1.5min, 150W for min, 40W continu	· 3min,		1010/		>94% from 0.25 to 1.1µm				
30W for 6r 20kW/cm <sup>2</sup>	min, 40W continu	· 3min,		300mW - 40W			300mW - 10W			
		250W for 1.5min, 150W for 3min, 80W for 6min, 40W continuous			500W for 45s, 250W for 1.5min, 150W for 3min, 80W for 6min, 40W continuous			10W continuous, 100W for 2min, 100W heat sinked		
750mm	20kW/cm <sup>2</sup> at 250W			>150kW/cm <sup>2</sup> at 500W			42kW/cm <sup>2</sup> at 100W			
Ø50mm			Ø35mm			Ø26mm				
Ø35mm for up to 30deg incidence			Ø25mm for normal incidence Ø15mm for 20deg incidence <sup>(†)</sup> Ø10mm for 30deg incidence <sup>(†)</sup>			Ø17mm for up to 30deg incidence				
0.3s - 2s <sup>(b)</sup>			0.3s - 4s <sup>(b)</sup>			0.5s - 4s <sup>(b)</sup>				
100mJ – 10,000J			100mJ – 2000J			30mJ – 2000J				
±5% 700 – 1100nm <sup>(a), (c)</sup>			±5% 900 – 1100nm <sup>(c)</sup>			±5% 700 – 1100nm <sup>(a), (c)</sup>				
±1.5% <sup>(d)</sup>			±1.5% <sup>(d)</sup>			±1.5% <sup>(d)</sup>				
±1%			±1%			±1%				
2.5s			2.5s			1.5s				
12s			12s			12s				
20kJ (e.g. 4 shots of 5000Wx1s). Cooling down time before another 20kJ series, 10min.			8kJ (e.g. 4 shots of 2000Wx1s). Cooling down time before another 8kJ series, 10min.			10kJ (e.g. 5 shots of 2000Wx1s). Cooling down time before another 10kJ series, 10min.				
_aser	Recommended	Min 1/e <sup>2</sup> beam	Laser			Laser				
							· ·	dia. mm		
500		9		4	1	100	4	9		
1000		-			1			9		
2000								13		
4000				· ·				17		
5000			4000	0.4	3.5	4000	0.5	22		
10000	0.3	22								
Centauri, StarBright, Juno/Juno+/Juno-RS with StarLab			Centauri, StarBright, Juno/Juno+/Juno-RS with StarLab			Centauri, StarBright, Juno/Juno+/Juno-RS with StarLab				
0.6			0.6			0.3				
15-60°C			15-60°C			15-60°C				
DB15 Smart Plug			DB15 Smart Plug			DB15 Smart Plug				
CE, UKCA, China RoHS			CE, UKCA, China RoHS			CE, UKCA, China RoHS				
7Z02794 (see page 66)			7Z02797 (see page 66)			7 <b>Z02775</b> (see page 150)				
	.3s - 2s (° 00mJ - 1 5% 700 - 1.5% (°) 1% .5s 2s 0kJ (e.g. cooling dc eries, 10 aser ower W 00 00 000 000 000 000 000 000 000 000	.3s - 2s <sup>(b)</sup> 00mJ – 10,000J 5% 700 – 1100nm <sup>(a), (c)</sup> 1.5% <sup>(d)</sup> 1% .5s 2s 0kJ (e.g. 4 shots of 5000V cooling down time before a eries, 10min. aser Recommended Exposure s 00 2 000 1 000 0 1. 000 1 000 0 1. 000 1 000 1 000 1 000 1 000 1 000 0 1. 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 5 E-entauri, StarBright, Juno/Ju ith StarLab .6 5-60°C B15 Smart Plug :E, UKCA, China RoHS <b>Z02794</b> (see page 66) additional 1% uncertainty	.3s - 2s <sup>(b)</sup> 00mJ – 10,000J 5% 700 – 1100nm <sup>(a), (c)</sup> 1.5% <sup>(d)</sup> 1% .5s 2s 0kJ (e.g. 4 shots of 5000Wx1s). cooling down time before another 20kJ eries, 10min. aser W Recommended Min 1/e <sup>2</sup> beam dia. mm 00 2 9 000 1 9 000 1 9 000 1 9 000 1 12 000 1 12 000 1 16 000 1 18 000 1 18 000 0 1 22 sentauri, StarBright, Juno/Juno+/Juno-RS ith StarLab .6 5-60°C B15 Smart Plug :E, UKCA, China RoHS <b>Z02794</b> (see page 66) additional 1% uncertainty	335mm for up to 30deg incidence       Ø15mm fe         Ø10mm fe       Ø10mm fe         .3s - 2s (b)       0.3s - 4s (b)         00mJ - 10,000J       100mJ - 2         5% 700 - 1100nm (b), (c)       ±5% 900         1.5% (e)       ±1.5% (e)         1%       ±1.5% (e)         1%       ±1%         .5s       2.5s         2s       12s         0kJ (e.g. 4 shots of 5000Wx1s). cooling down time before another 20kJ eries, 10min.       8kJ (e.g. 4         aser ower W       Recommended Exposure s       Min 1/e² beam dia. mm       Laser Power W         000       2       9       100         000       1       12       1000         000       1       16       2000         000       1       18       4000         0000       1       18       4000         0000       1       18       4000         0000       0.3       22       56         5entauri, StarBright, Juno/Juno+/Juno-RS       with StarL         .6       5-60°C       15-60°C         B15 Smart Plug       DB15 Sm       CE, UKCA         Z0Z794 (see page 66)       7202797 <td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence         Ø10mm for 30deg incidence       Ø10mm for 30deg incidence         .3s - 2s <sup>(b)</sup>       0.3s - 4s <sup>(b)</sup>         00mJ - 10,000J       100mJ - 2000J         5% 700 - 1100nm <sup>(a), (c)</sup>       ±5% 900 - 1100nm <sup>(c)</sup>         1.5% <sup>(a)</sup>       ±1.5% <sup>(a)</sup>         1.5% <sup>(a)</sup>       ±1.5% <sup>(c)</sup>         1%       ±1%         .5s       2.5s         2s       12s         0kJ (e.g. 4 shots of 5000Wx1s).       8kJ (e.g. 4 shots of 2000W         cooling down time before another 20kJ       Beries, 10min.         aser       Recommended       Min 1/e² beam         cower W       Exposure s       Laser         Recommended       Min 1/e² beam       Laser         cooling down time before another 20kJ       series, 10min.         aser       Recommended       Min 1/e² beam         cwer W       Exposure s       100         000       1       9       500         000       1       12       1000         000       1       18       4000       0.4         0000       1       18       4000       0.4         0000       1       18       <t< td=""><td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence (f)         Ø10mm for 30deg incidence (f)       Ø10mm for 30deg incidence (f)         .3s - 2s (fr)       0.3s - 4s (fr)         00mJ - 10,000J       100mJ - 2000J         5% 700 - 1100nm (fr)       ±5% 900 - 1100nm (fr)         1.5% (fr)       ±1.5% (fr)         1.5% (fr)       ±1.5% (fr)         1%       ±1.5% (fr)         5s       2.5s         2s       12s         0kJ (e.g. 4 shots of 5000Wx1s).       Scoling down time before another 20kJ         series, 10min.       8kJ (e.g. 4 shots of 2000Wx1s).         cooling down time before another 20kJ       Series, 10min.         aser       Recommended       Min 1/e2 beam         ower W       Exposure s       Min 1/e2 beam         000       2       9       100       4         000       1       12       1000       1         000       1       16       2000       1         000       1       18       4000       0.4       3.5         0000       1       18       4000       0.4       3.5         0000       1       18       4000       0.4       3.5         <td< td=""><td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence (f)       Ø17mm for 20deg incidence (f)         .3s - 2s (h)       0.3s - 4s (h)       0.5s - 4s (h)         00mJ - 10,000J       100mJ - 2000J       30mJ - 20         5% 700 - 1100nm (h) (h)       ±5% 900 - 1100nm (h)       ±5% 700         1.5% (h)       ±1.5% (h)       ±1.5% (h)         1.5% (h)       ±1.5% (h)       ±1.5% (h)         1.5%       ±1%       ±1%         .5s       2.5s       1.5s         2s       12s       12s         0kJ (e.g. 4 shots of 5000Wx1s). cooling down time before another 20kJ series, 10min.       8kJ (e.g. 4 shots of 2000Wx1s). Cooling down time before another 20kJ series, 10min.       10kJ (e.g. cooling down time before another 20kJ series, 10min.       10kJ (e.g. series, 10min.         aser bower W       Recommended kaser       Min 1/e² beam series, 10min.       10kD (e.g. series, 10min.       10kD (e.g. series, 10min.         00</td><td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence (*)       Ø17mm for up to 30deg incidence (*)         3.3 - 25 (*)       0.3s - 4s (*)       0.5s - 4s (*)         00mJ - 10,000J       100mJ - 2000J       30mJ - 2000J       30mJ - 2000J         5% 700 - 1100nm (*). (*)       ±5% 900 - 1100nm (*)       ±5% 700 - 1100nm (*)       ±5% 700 - 1100nm (*)         1.5% (*)       ±1.5% (*)       ±1.5% (*)       ±1.5% (*)       ±1.5% (*)         1%       ±1.5% (*)       ±1.5% (*)       ±1/5% (*)       ±1/5% (*)         1%       ±1%       ±1%       ±1%       ±1%         .5s       2.5s       1.5s       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000W Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 4 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000W Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 4 shots of 2000W 1       10kJ (e.g. 5 shots of 2000W 1       10kJ</td></td<></td></t<></td>	335mm for up to 30deg incidence       Ø15mm for 20deg incidence         Ø10mm for 30deg incidence       Ø10mm for 30deg incidence         .3s - 2s <sup>(b)</sup> 0.3s - 4s <sup>(b)</sup> 00mJ - 10,000J       100mJ - 2000J         5% 700 - 1100nm <sup>(a), (c)</sup> ±5% 900 - 1100nm <sup>(c)</sup> 1.5% <sup>(a)</sup> ±1.5% <sup>(a)</sup> 1.5% <sup>(a)</sup> ±1.5% <sup>(c)</sup> 1%       ±1%         .5s       2.5s         2s       12s         0kJ (e.g. 4 shots of 5000Wx1s).       8kJ (e.g. 4 shots of 2000W         cooling down time before another 20kJ       Beries, 10min.         aser       Recommended       Min 1/e² beam         cower W       Exposure s       Laser         Recommended       Min 1/e² beam       Laser         cooling down time before another 20kJ       series, 10min.         aser       Recommended       Min 1/e² beam         cwer W       Exposure s       100         000       1       9       500         000       1       12       1000         000       1       18       4000       0.4         0000       1       18       4000       0.4         0000       1       18 <t< td=""><td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence (f)         Ø10mm for 30deg incidence (f)       Ø10mm for 30deg incidence (f)         .3s - 2s (fr)       0.3s - 4s (fr)         00mJ - 10,000J       100mJ - 2000J         5% 700 - 1100nm (fr)       ±5% 900 - 1100nm (fr)         1.5% (fr)       ±1.5% (fr)         1.5% (fr)       ±1.5% (fr)         1%       ±1.5% (fr)         5s       2.5s         2s       12s         0kJ (e.g. 4 shots of 5000Wx1s).       Scoling down time before another 20kJ         series, 10min.       8kJ (e.g. 4 shots of 2000Wx1s).         cooling down time before another 20kJ       Series, 10min.         aser       Recommended       Min 1/e2 beam         ower W       Exposure s       Min 1/e2 beam         000       2       9       100       4         000       1       12       1000       1         000       1       16       2000       1         000       1       18       4000       0.4       3.5         0000       1       18       4000       0.4       3.5         0000       1       18       4000       0.4       3.5         <td< td=""><td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence (f)       Ø17mm for 20deg incidence (f)         .3s - 2s (h)       0.3s - 4s (h)       0.5s - 4s (h)         00mJ - 10,000J       100mJ - 2000J       30mJ - 20         5% 700 - 1100nm (h) (h)       ±5% 900 - 1100nm (h)       ±5% 700         1.5% (h)       ±1.5% (h)       ±1.5% (h)         1.5% (h)       ±1.5% (h)       ±1.5% (h)         1.5%       ±1%       ±1%         .5s       2.5s       1.5s         2s       12s       12s         0kJ (e.g. 4 shots of 5000Wx1s). cooling down time before another 20kJ series, 10min.       8kJ (e.g. 4 shots of 2000Wx1s). Cooling down time before another 20kJ series, 10min.       10kJ (e.g. cooling down time before another 20kJ series, 10min.       10kJ (e.g. series, 10min.         aser bower W       Recommended kaser       Min 1/e² beam series, 10min.       10kD (e.g. series, 10min.       10kD (e.g. series, 10min.         00</td><td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence (*)       Ø17mm for up to 30deg incidence (*)         3.3 - 25 (*)       0.3s - 4s (*)       0.5s - 4s (*)         00mJ - 10,000J       100mJ - 2000J       30mJ - 2000J       30mJ - 2000J         5% 700 - 1100nm (*). (*)       ±5% 900 - 1100nm (*)       ±5% 700 - 1100nm (*)       ±5% 700 - 1100nm (*)         1.5% (*)       ±1.5% (*)       ±1.5% (*)       ±1.5% (*)       ±1.5% (*)         1%       ±1.5% (*)       ±1.5% (*)       ±1/5% (*)       ±1/5% (*)         1%       ±1%       ±1%       ±1%       ±1%         .5s       2.5s       1.5s       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000W Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 4 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000W Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 4 shots of 2000W 1       10kJ (e.g. 5 shots of 2000W 1       10kJ</td></td<></td></t<>	335mm for up to 30deg incidence       Ø15mm for 20deg incidence (f)         Ø10mm for 30deg incidence (f)       Ø10mm for 30deg incidence (f)         .3s - 2s (fr)       0.3s - 4s (fr)         00mJ - 10,000J       100mJ - 2000J         5% 700 - 1100nm (fr)       ±5% 900 - 1100nm (fr)         1.5% (fr)       ±1.5% (fr)         1.5% (fr)       ±1.5% (fr)         1%       ±1.5% (fr)         5s       2.5s         2s       12s         0kJ (e.g. 4 shots of 5000Wx1s).       Scoling down time before another 20kJ         series, 10min.       8kJ (e.g. 4 shots of 2000Wx1s).         cooling down time before another 20kJ       Series, 10min.         aser       Recommended       Min 1/e2 beam         ower W       Exposure s       Min 1/e2 beam         000       2       9       100       4         000       1       12       1000       1         000       1       16       2000       1         000       1       18       4000       0.4       3.5         0000       1       18       4000       0.4       3.5         0000       1       18       4000       0.4       3.5 <td< td=""><td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence (f)       Ø17mm for 20deg incidence (f)         .3s - 2s (h)       0.3s - 4s (h)       0.5s - 4s (h)         00mJ - 10,000J       100mJ - 2000J       30mJ - 20         5% 700 - 1100nm (h) (h)       ±5% 900 - 1100nm (h)       ±5% 700         1.5% (h)       ±1.5% (h)       ±1.5% (h)         1.5% (h)       ±1.5% (h)       ±1.5% (h)         1.5%       ±1%       ±1%         .5s       2.5s       1.5s         2s       12s       12s         0kJ (e.g. 4 shots of 5000Wx1s). cooling down time before another 20kJ series, 10min.       8kJ (e.g. 4 shots of 2000Wx1s). Cooling down time before another 20kJ series, 10min.       10kJ (e.g. cooling down time before another 20kJ series, 10min.       10kJ (e.g. series, 10min.         aser bower W       Recommended kaser       Min 1/e² beam series, 10min.       10kD (e.g. series, 10min.       10kD (e.g. series, 10min.         00</td><td>335mm for up to 30deg incidence       Ø15mm for 20deg incidence (*)       Ø17mm for up to 30deg incidence (*)         3.3 - 25 (*)       0.3s - 4s (*)       0.5s - 4s (*)         00mJ - 10,000J       100mJ - 2000J       30mJ - 2000J       30mJ - 2000J         5% 700 - 1100nm (*). (*)       ±5% 900 - 1100nm (*)       ±5% 700 - 1100nm (*)       ±5% 700 - 1100nm (*)         1.5% (*)       ±1.5% (*)       ±1.5% (*)       ±1.5% (*)       ±1.5% (*)         1%       ±1.5% (*)       ±1.5% (*)       ±1/5% (*)       ±1/5% (*)         1%       ±1%       ±1%       ±1%       ±1%         .5s       2.5s       1.5s       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000W Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 4 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000W Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 4 shots of 2000W 1       10kJ (e.g. 5 shots of 2000W 1       10kJ</td></td<>	335mm for up to 30deg incidence       Ø15mm for 20deg incidence (f)       Ø17mm for 20deg incidence (f)         .3s - 2s (h)       0.3s - 4s (h)       0.5s - 4s (h)         00mJ - 10,000J       100mJ - 2000J       30mJ - 20         5% 700 - 1100nm (h) (h)       ±5% 900 - 1100nm (h)       ±5% 700         1.5% (h)       ±1.5% (h)       ±1.5% (h)         1.5% (h)       ±1.5% (h)       ±1.5% (h)         1.5%       ±1%       ±1%         .5s       2.5s       1.5s         2s       12s       12s         0kJ (e.g. 4 shots of 5000Wx1s). cooling down time before another 20kJ series, 10min.       8kJ (e.g. 4 shots of 2000Wx1s). Cooling down time before another 20kJ series, 10min.       10kJ (e.g. cooling down time before another 20kJ series, 10min.       10kJ (e.g. series, 10min.         aser bower W       Recommended kaser       Min 1/e² beam series, 10min.       10kD (e.g. series, 10min.       10kD (e.g. series, 10min.         00	335mm for up to 30deg incidence       Ø15mm for 20deg incidence (*)       Ø17mm for up to 30deg incidence (*)         3.3 - 25 (*)       0.3s - 4s (*)       0.5s - 4s (*)         00mJ - 10,000J       100mJ - 2000J       30mJ - 2000J       30mJ - 2000J         5% 700 - 1100nm (*). (*)       ±5% 900 - 1100nm (*)       ±5% 700 - 1100nm (*)       ±5% 700 - 1100nm (*)         1.5% (*)       ±1.5% (*)       ±1.5% (*)       ±1.5% (*)       ±1.5% (*)         1%       ±1.5% (*)       ±1.5% (*)       ±1/5% (*)       ±1/5% (*)         1%       ±1%       ±1%       ±1%       ±1%         .5s       2.5s       1.5s       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000W Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 4 shots of 2000Wx1s).       Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 5 shots of 2000W Cooling down time before another 8kJ series, 10min.       10kJ (e.g. 4 shots of 2000W 1       10kJ (e.g. 5 shots of 2000W 1       10kJ		

(c) neperturve pulses can also be measured as long as the total exposure time is within this range (c) The power is calculated by measuring the energy and exposure time. The laser pulse is assumed to be rectangular for this calculation (d) For pulse widths in the range 0.3 – 4s (e) Calibrated for 900 – 1100nm

(f) At large angles of incidence, the position the beam hits the absorber should be offset into the direction of incidence by 5-10mm for correct reading and at 20deg incidence the reading will be 5% lower and at 30deg incidence 10% lower

\* For drawings please see page 108





#### Pulsed Power Mode Screen:



### L40(250)A-LP2-50





L30C-LP2-26-SH

17



L40(500)A-LP2-DIF-35





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