



LS685 LASER STABILIZER SYSTEM SPECIFICATIONS



LSS685 Laser Stabilizer

ELECTRICAL

Power Input: 115 VAC, 1A, 50/60 Hz
Output: Adjustable, 0 to -1500 VDC, 1.5 mA
Regulation: > 0.005% for 10% line variation
Ripple: > 0.02% for rated current
Stability: > 0.01%/hr for constant temperature and 0.5 hr warmup

MECHANICAL:

Size: 21" x 13 "x 5.5" (53cm x 33cm x 14cm)
Weight: 20 lbs. (9 kg)
Colour: Black

FRONT PANEL:

INPUT	: Isolated BNC, single ended referenced to ground
SIGNAL GAIN	: 0 to 80 dB signal boost
DISPLAY	: Analog panel meter shows high voltage output
H.V. ADJUST	: Continuous high voltage adjustment in MANUAL mode, sets upper limit in RAMP mode
FUNCTION	: Two toggle switches; MANUAL/ STAB, NORMAL/ RAMP
PHASE inversion	: Plus/ Minus toggle switch for reference signal phase inversion
PHASE ADJUST	: Continuous manual adjustment of reference signal
SLOPE	: Manual adjustment of RAMP rise time
FREQUENCY OFFSET	: Selects locking to laser line center or plus/ minus offset from center
NULL	: BNC output for frequency offset calibration
MOD LEVEL	: Continuous adjustment of modulation amplitude; 0 to 25 VPP
MOD OUT	: BNC output of modulation signal
MONITOR	: BNC output for AC or DC signal (SIGNAL/ DEMOD)
MOD SYNC	: BNC output, 25VPP for external triggering
POWER ON	: Main power toggle switch, LED on indicator

REAR PANEL

AC IN/ FUSE	: Main power input, RFI filtered, 1A slow blow fuse
MODULATION	: Switches laser cavity modulation ON/ OFF
H.V. OUT	: MHV output of high voltage DC signal
RAMP SYNC	: BNC signal for external triggering
F.O. MONITOR	: BNC signal of frequency offset bias voltage
POWER OUT	: Six pin connector for +15V, -15V, GND



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