

Features & Specification

High Power, Highly Stable
Switch mode DC Power Supply

SERIES LAB/HP 15kW

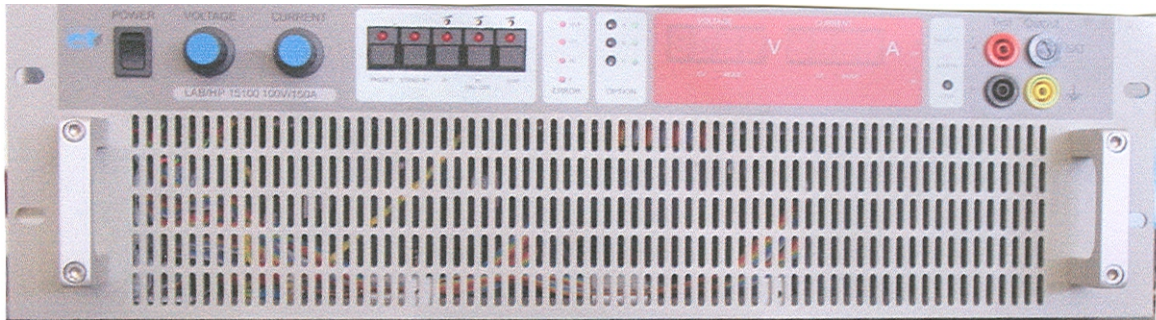


Dimensions: 19" W x **5.25" H** x 24" D
Weight: ~ 75 lbs

FEATURES:

- *Extremely compact* due to **100kHz MOS / IGBT technology**
The units are only 5.25" High and weigh only **75 lbs**
- **Remote Control** 0-10V analog programming
- Up to **94% efficiency** at full load
- **Parallel connections** possible up to 90kW total combined power
- **Constant Voltage (CV)**, **Constant Power (CP)**, **Constant Current (CC)** and **Constant Resistance (Impedance)** mode
- **Rise time of 5 us / A**, *Optional: 2 us / A !!*
- Over-Voltage, Over-Current, Over-Temperature and Over power protection
- Digital display of all system parameters
- Very fast voltage drop compensation response time on load lines
- Forced air cooling (front to back)

FRONT PANEL CONTROLS, DISPLAYS & INDICATORS



- Power Supply On / Off switch
- Power supply "On" indicator (LED)
- Stand-By Indicator (LED)
- Pre-Set Button
- Digital display for voltage - The voltage is indicated on the 3 ½ digit "V" display
- Digital display for current - The current is indicated on the 3 ½ digit "A" display
- Stand-By Indicator (LED)
- Constant voltage indicator - The "CV" LED is illuminated in constant voltage mode
- Constant current indicator - The "CC" LED is illuminated in constant current mode
- Over voltage indicator - If over-voltage occurs at the terminals, the "OVP" LED will illuminate. Once the cause of the fault has been corrected, the supply must be reset by pushing the "STAND-BY" button twice.
- Measurement Terminals (top right corner)

SPECIFICATION

Input voltage:	3 x 480VAC, 3-Phase, 47-63Hz
Output Voltage:	0 -VDC
Output Current:	0 -A
Power:	15,000 Watt
Isolation:	3,000 VAC
Isolation class:	1

SPECIFICATION continued.....

Efficiency:	Up to 94% at full load
Voltage drop compensation response time:	> 500 us
Voltage regulation:	± 0.05% +2mV
Current regulation:	± 0.1% +2 mA
Ripple:	< 0.025% of max. output voltage (in mV rms)
Ripple Frequency of output:	~ 80 kHz
Capacitance at the output:	3 x 3,300 uF parallel
Response time:	typical < 0.5 ms
Stability:	0.05%
Over-voltage protection:	105-110% V max / adjustable !
Compensation Voltage drop:	5V
Display:	3.5 digits for Voltage and Current
Protection:	Over Current, Over Voltage, Over Temperature, Over Power
Operating temperature:	0 - 50°C
Operating Humidity:	0-95% (no dew drop)
Reduced Power from 50-70°C:	- 2% / C
Cooling:	Forced air cooling, front to back
Storage temperature:	-45 to + 85°C
Storage humidity:	0- 95% (no dew drop)
Vibration:	10 - 55Hz /1 min / 2G XYZ