

# LAB-IGBT

## HIGH POWER DC SOURCE CABINETS



POSITIVE PROBLEM SOLVING **+ =**

**The LAB-IGBT is a robust range of switch mode power sources based on IGBT technology. Front panel control and display is provided as standard.**

These units are ideal for medium to high power applications where full adjustability of voltage and current limit is required. For remote control your chosen unit can be built with either standard or isolated analogue interfaces. A wide range of computer interfaces are also optionally available. On request additional filtering can be built into the unit to drastically reduce the output ripple to <1%.

- + Constant Voltage & Current Operation**
- + Series & Parallel Operation**
- + Voltages up to 400Vdc**
- + Currents up to 5,000A**
- + Optional Interfaces**
- + Low Ripple Option**

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## FURTHER DETAILS

Forced air cooling is standard although convection cooling can be specified. Series and parallel operation is possible ensuring your organisation's investment is safeguarded should your power requirements change.

A host of safety features are provided including V, I & W limits along with overtemperature and fast acting fuses.

If a unit from the standard range is not ideal then please let us know your requirement. Almost any output of up to 400Vdc, 5,000A at a maximum power of 90kW is possible with this platform.

The LAB-IGBT is ideal for applications which require bulk DC power such as electrolysis, water treatment and electroplating.

### SELECTION TABLE

Part Number	Max. Power	Voltage Range	Current Range	Part Number	Max. Power	Voltage Range	Current Range
LAB-IGBT 10-4000	40kW	0 - 10V	0 - 4000A	LAB-IGBT 14-5000	70kW	0 - 14V	0 - 5000A
LAB-IGBT 30-1333	40kW	0 - 30V	0 - 1333A	LAB-IGBT 30-2333	70kW	0 - 30V	0 - 2333A
LAB-IGBT 60-666	40kW	0 - 60V	0 - 666A	LAB-IGBT 60-1166	70kW	0 - 60V	0 - 1166A
LAB-IGBT 80-500	40kW	0 - 80V	0 - 500A	LAB-IGBT 80-875	70kW	0 - 80V	0 - 875A
LAB-IGBT 125-320	40kW	0 - 125V	0 - 320A	LAB-IGBT 125-560	70kW	0 - 125V	0 - 560A
LAB-IGBT 200-200	40kW	0 - 200V	0 - 200A	LAB-IGBT 200-350	70kW	0 - 200V	0 - 350A
LAB-IGBT 300-133	40kW	0 - 300V	0 - 133A	LAB-IGBT 300-233	70kW	0 - 300V	0 - 233A
LAB-IGBT 400-100	40kW	0 - 400V	0 - 100A	LAB-IGBT 400-175	70kW	0 - 400V	0 - 175A
LAB-IGBT 10-5000	50kW	0 - 10V	0 - 5000A	LAB-IGBT 16-5000	80kW	0 - 16V	0 - 5000A
LAB-IGBT 30-1666	50kW	0 - 30V	0 - 1666A	LAB-IGBT 30-2666	80kW	0 - 30V	0 - 2666A
LAB-IGBT 60-833	50kW	0 - 60V	0 - 833A	LAB-IGBT 60-1333	80kW	0 - 60V	0 - 1333A
LAB-IGBT 80-625	50kW	0 - 80V	0 - 625A	LAB-IGBT 80-1000	80kW	0 - 80V	0 - 1000A
LAB-IGBT 125-400	50kW	0 - 125V	0 - 400A	LAB-IGBT 125-640	80kW	0 - 125V	0 - 640A
LAB-IGBT 200-250	50kW	0 - 200V	0 - 250A	LAB-IGBT 200-400	80kW	0 - 200V	0 - 400A
LAB-IGBT 300-166	50kW	0 - 300V	0 - 166A	LAB-IGBT 300-266	80kW	0 - 300V	0 - 266A
LAB-IGBT 400-125	50kW	0 - 400V	0 - 125A	LAB-IGBT 400-200	80kW	0 - 400V	0 - 200A
LAB-IGBT 12-5000	60kW	0 - 12V	0 - 5000A	LAB-IGBT 18-5000	90kW	0 - 18V	0 - 5000A
LAB-IGBT 30-2000	60kW	0 - 30V	0 - 2000A	LAB-IGBT 30-3000	90kW	0 - 30V	0 - 3000A
LAB-IGBT 60-1000	60kW	0 - 60V	0 - 1000A	LAB-IGBT 60-1500	90kW	0 - 60V	0 - 1500A
LAB-IGBT 80-750	60kW	0 - 80V	0 - 750A	LAB-IGBT 80-1125	90kW	0 - 80V	0 - 1125A
LAB-IGBT 125-480	60kW	0 - 125V	0 - 480A	LAB-IGBT 125-720	90kW	0 - 125V	0 - 720A
LAB-IGBT 200-300	60kW	0 - 200V	0 - 300A	LAB-IGBT 200-450	90kW	0 - 200V	0 - 450A
LAB-IGBT 300-200	60kW	0 - 300V	0 - 200A	LAB-IGBT 300-300	90kW	0 - 300V	0 - 300A
LAB-IGBT 400-150	60kW	0 - 400V	0 - 150A	LAB-IGBT 400-225	90kW	0 - 400V	0 - 225A

## TECHNICAL DATA

GENERAL	
Input Voltage	3 × 400Vac [50/60Hz]
Isolation [Input to Output]	2000Vdc
Isolation [Output to PE]	2000Vdc
Safety	EN60950
Emission	EN61000-6-4
Immunity	EN61000-6-2
CEM Standards	89 / 336 CEE
Low Voltage	73 / 23 CEE
Response Time	<50ms
Ripple	<5% [1% option]
Stability	<1%
Display	3.5 digits for V & I
Protection	OC / OT / OP
Analogue Interface	0 - 5V [10V option /AI-10]
Isolated Analogue Interface	0 - 5V [10V option /ATI-10]
Interface RS-232	Option /LTRS232
Interface IEE488.2	Option /LT
Operating Temperature	-10°C to +40°C
Storage Temperature	-40°C to +60°C
Operating Humidity	<80% (non condensing)

## OPTIONS

CODE	DESCRIPTION
/ATE	No front panel control or display, analogue Interface provided as standard
/AI-5	0-5V Analogue interface for all control and measurement functions
/AI-10	0-10V Analogue interface for all control and measurement functions
/ATI-5	Isolated 0-5V Analogue interface for all control and measurement functions
/ATI-10	Isolated 0-10V Analogue interface for all control and measurement functions
/LT	IEEE 488.2 interface
/LTRS232	RS-232 interface
/LTRS485	RS-485 interface
/LT+LTRS232	IEEE 488.2 and RS-232
/LT+LTRS485	IEEE 488.2 and RS-485
/USB	USB Interface
/ETH	Ethernet interface over a LAN
/LR	Ripple improved to 1% of full scale value
/CK	Convection cooling

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.



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Tel: +44 (0) 1246 452909  
Sales: 0800 612 95 75  
sales@etps.co.uk  
www.etps.co.uk

ETPS Ltd  
Unit 14, The Bridge  
Beresford Way, Chesterfield  
S41 9FG



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