

LAB/SLV1 – Bidirectional DC Power Supply

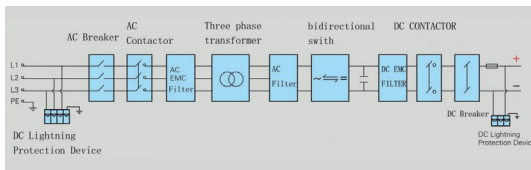
up to 720 KW



OVERVIEW

- Power and grid converter feedback can be continuous converted. The largest single capacity can be 720 KW.
- Output current up to 1000 A
- Output voltage up to 1000 V
- High dynamic characteristics 20 mS
- Low ripple factor <1 %
- With isolation for input and output
- Three-phase feedback design P.F.C
- Intelligent monitoring
- Interface Standard LAN (Option RS232 and CAN)
- Friendly operated interface
- Suitable for testing in the field of cabinet structure
- Can be customized according to customer demand

WORKING DIAGRAMS



POWER DIAGRAM



APPLICATIONS

- Battery system test and evaluation
- Power equipment development and testing
- Simulation for vehicle and aircraft wiring system
- Electric motors, elevators, cranes, rail test system
- Hybrid components testing and evaluation
- Process technology of electronics
- Energy buffer system inspection and cycle testing

DATASHEET

Power	up to 720 KW
Working	PWM

Input

Phase	Three-phase four wires 3-P+E
Voltage	400 V \pm 8 %
PFC	0.98 (at full load)
Frequency	50 Hz \pm 10 %

Output

Voltage	100 V up to 1000 V
Current	up to \pm 1000 A

Regulation, Ripple and Display

Ripple voltage	0.8 % FS (RMS)
Highest efficiency	\leq 93.5 %
Line regulation	\pm 0.1 % FS
Load regulation	\leq 0,5 %
Voltage regulation	\pm \leq 0.5 % FS (full scale resistor load)
Current regulation	\pm \leq 0.5% FS (full scale resistor load)
Rise time	10 % to 90 % for load and reload at 300 V = 20 ms / 600 V = 40 ms / 1000 V = 60 ms
Voltage reload	Starting at \geq 100 VDC
Voltage resolution	1 V
Current resolution	0.1 A
Power resolution	0.1 KW
LCD Display	Vrms, Irms, Time, Wattage

Setting items

Voltage regulator	0 – 100 % The rated voltage is adjustable (100 VDC up to FS)
Current regulation	0 – 100 % The rated current is adjustable
Power regulation	0 – 100 % The rated power is adjustable

Setting accuracy

Voltage	\pm 0.5 % FS
Current	\pm 0.5 % FS
Wattage	\pm 0,25 % FS

Measurement accuracy

Voltage	0.5 % FS +5 dgt.
Current	0.5 % FS +5 dgt.
Wattage	0.25 % FS +5 dgt.

Environment

Temp	-20 – 50 °C
RH	20 % – 80 % RH (non-condensing)
Cooling	Fan forced cooling
Protection	IP 30

Other

Interface	Standard LAN (Option RS232 and CAN)
I-LIM Set	0 – Max current (exceeds the current protection stops output)
V-LIM Set	0 – Max voltage (exceeds the voltage protection stops output)
Protection	Over current; over temperature; over voltage; short circuit
Weight (Kg)	400 – 1200
Volume W × H × D (mm)	according to power