5V High Precision Battery Testing Lab

Product Features

High Power Density

- DC/DC uses third-generation semiconductor device to increase switching frequency and reduce power supply size.

- AC/DC uses single transistor instead of IGBT module to increase switching frequency and reduce cost.

High Efficiency

- The use of 750V and 15V secondary common bus bar makes the power cycle more efficient.

- LLC soft-switching technology to achieve high-frequency isolation and improve efficiency.

High Reliability

- AC/DC uses three-level technology to reduce harmonic components and common-mode interference.

- Using interleaving technology to reduce the output current ripple.

- Full fill safety standards: EN62477-1.

· EMC compliance: EN61000-6-2/EN61000-6-4.

High Performance

· Modular design, cross-module parallel support 3000A.

· Support CC, CV, DC, DV, Pulse, simulation etc.

· Using CANFD Communication.

· High-precision sampling ADC: 24bit.

· 1ms high speed sampling.

· Current grade (patent no. CN202323053472.7)

· Current dynamic response 1ms.

Parameters

DECT05300A	DECT05600A	DECT051200A

DECT052400A	DECT053000A

Model	Channel quantity
DECT5300A-3000A	**1~32CH or Adjustable**
Voltage accuracy	Voltage resolution
±0.02%FS	**0.1mV**
Current accuracy	Current resolution
±0.05%FS (Grading: 75A/Grade)	**0.1mA**
Charging output voltage range	Dis-charging input voltage range
0~5V	**1.5~5V (0V Adjustable)**
Current response	High speed sampling
2ms (10%~90%)	**1ms**
Charging peak efficiency	Dis-charging peak efficiency
83%	**78%**
Auxiliary channels	
Voltage / Temperature / Pressure Sensor	

Auxiliary channels voltage sampling board

Sampling voltage 0V~+6V, Deviation ≤±2mV, Resolution rate 0.01mV

Auxiliary channels temperature sampling board

Range -40℃~120℃, Deviation ≤±1℃, Resolution 0.1℃

Device input voltage

380V3P

Equipment working environment temperature

-10℃~35℃