

S7000H Regenerative DC Source-Load Power System



- Bidirectional DC source
- Regenerative electric load
- PV Array IV Simulation
- Battery charge-discharge
- Battery simulation
- Parallel operation

Summary

S7000H is a high precision DC power system supporting dual mode—source and load—with energy regenerative feature. (1) As a DC source, it supports dual quadrant energy flow. (2) As an electronic load, it supports energy recovery to the grid. Highly efficient in switching modes, featuring high power density, 3U-sized dimension enables it to power up to 30kW and output voltage up to 2000V. Support parallel operation of multiple machines. Human-computer interface is engineered to suit all your needs by offering two choices, colorful touchscreen and knob. Can be applied in battery testing, battery storage inverter testing, electronic testing of EV etc. A comprehensive test solution to versatile types of products with highly effective and robust result.

Advantages

- Voltage output range: 0-2000V (up to 2250V)
- Support parallel operation of 20 machines (or more)
- Unique design for human-computer interface: knob and colorful touchscreen.
- Smooth switching between DC source mode and load mode
- Bidirectional energy flow supporting energy recovery to the grid.
- High power density: 30kW in 3U
- High precision voltage and current output. Low ripple.
- Standard communication interfaces: RS485/CAN/LAN/USB
- Comprehensive protection including OCP/OVP/OPT/PIOTP/input protection/island protection etc.

HEFEI KEWELL POWER SYSTEM CO., Ltd.

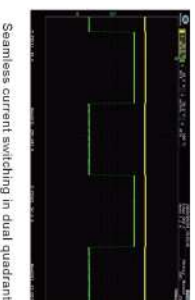
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Specifications

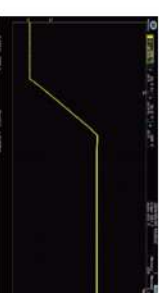
項目	S7000H-7KS -750-0040		S7000H-15K -750-0080		S7000H-21K -1500-0120		S7000H-15K -1500-0040		S7000H-21K -2000-0040		S7000H-30K -2000-0040	
	Rated Values	Voltage 750V	Current 40A*1	Power 7.5KW	Voltage 750V	Current 80A	Power 15KW	Voltage 750V	Current 120A	Power 21KW	Voltage 1500V	Current 40A*1
Display Resolution	Voltage	0.01V	0.01V	Voltage	0.01V	0.01V	Voltage	0.01V	0.01V	Voltage	0.01V	0.01V
	Current	0.01A	0.01A	0.01A	Current	0.01A	0.01A	0.01A	0.01A	Current	0.01A	0.01A
Precision	Power	1W										
	Voltage	≤0.05%F.S.										
Line Regulation	Current	≤0.1% F.S.										
	Voltage	≤0.02%F.S.										
Load Regulation	Current	≤0.02%F.S.										
	Voltage	≤0.05%F.S.										
Ripple	Voltage (20MHz)	≤1000mV										
	Voltage (rms)	≤200mV										
Slew Rate	Current (rms)	≤100mA										
	Voltage (no load)	0.001V/ms ~ 80V/ms	Voltage (full load)	0.001V/ms ~ 30V/ms	Voltage (no load)	0.001V/ms ~ 80V/ms	Voltage (full load)	0.001V/ms ~ 30V/ms	Voltage (no load)	0.001V/ms ~ 200V/ms	Voltage (full load)	0.001V/ms ~ 90V/ms
Dynamic Response Time	Current (full load)	0.001A/ms ~ 10A/ms										
	Current (full load)	0.001A/ms ~ 10A/ms										
AC Input	Voltage	342VAC~528VAC										
	Frequency	47Hz~63Hz										
Efficiency	Efficiency	≈95%										
	Power Factor	>0.99										
Protection	Protection	OVP/OCP/OVP/OTP/Anti-Islanding protection										
	Communication Interface	RS485/LAN/CAN/USB/Others (custom)										
Ambient Temperature	Ambient Temperature	0 ~ 40°C										
	Dimensions	733mm(D) x 445mm(W) x 132.5mm(H)										
Weight	Weight	≈40kg	≈45kg	≈50kg	≈45kg	≈50kg	≈45kg	≈50kg	≈45kg	≈50kg	≈45kg	≈50kg

Proven Test Curve

注: *1: Up to 70A *2: 10%-90% Load



Seamless current switching in dual quadrant



Start-up at constant voltage mode