Hybrid Power

High voltage DC power supply

- Innovative in energy storage & Power Electronics
- Custom-made solutions
- Complete solution: storage & Power Electronics
- Design and system integration

Features

- Galvanic isolated high-performance power supply
- Recovery capacity
- Isolation monitoring
- No purchase of reactive current from the grid
- Integrated harmonic regulator eliminates harmonic in grid current
- Large range of DC output (0 till 800V)
- Adjustable limiting for output current
- Service and set-point setting through touch panel and CAN interface
- Different control modes (current, voltage and power)
- Implementation of different client-specific data interfaces possible
- Client-specific user interface possible

Applications

- Power supply for test stations with recoverable loads (e.g. motor test stations)
- Electronic controlled load
- Battery simulation

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Technical Characteristics

Symbol	Parameter	Description	Value	Unit
	General			
P_{max}	Max. power (30 sec)		200	kW
P_{nom}	Rated power		160	kW
I_{DC}	Output current rate		2000	A/s
	Galvanic isolation	By transformer		
	Output voltage			
V_{DC}	Output voltage		0 till 800	V
V_{DC_pp}	Output voltage ripple		±10	V
	Input voltage			
V_{AC}	Supply voltage		415	V
$V_{AC,Range}$	Range of supply voltage		±10	%
f_{AC}	Mains frequency		50 (60 possible)	Hz
	Max. AC apparent power		215	kVa
	Environment			
T_n	Ambient temperature		0 till 40	°C
$T_{storage}$	Storage temperature		-20 till 50	°C
	Humidity	Non condensing	<95	%
	Protection rating		IP20	
	Insulation coordination, safety	EN50178		
	EMC	EN61000-6-4, EN61000-6-2, EN61000-3 (C2)		
	Cooling			
	Forced air cooling			
	Communication			
	Interface	Remote control via CAN-bus		
	Operating controls	10'' touch panel in cabinet door		