DC Power Supply
ENEREX A4xxxH

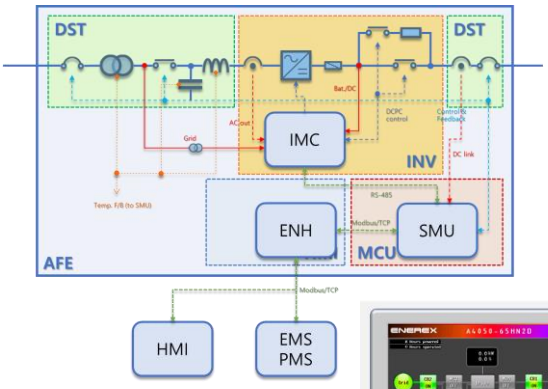
ENEREX DC power supply is stable and accurate constant voltage source.

ENEREX DC power supply can supply stable DC power regardless grid voltage fluctuation.

Features

- *Optimized industrial DC power supply solution for production and test facilities contains everything for user operation in one device.*
- *IP54 Outdoor installation type does not require installation room.*
- *Small installation space - 3.3m².*
- *Modbus/TCP communication protocol and Interface for connection to EMS or PMS.*
- *Minimum system downtime (<30 min.) by block system structure.*
- *No risk of damage to the load equipment by the stability of 1% of the output voltage FSD.*

Stable/Accurate DC Power Supply System



Target market & application

- Industrial DC Power
- Power converter test facility
- Test equipment for driving devices such as motor drives and engines

Features

- AC 380V input, DC 580-795V output (adjustable)
- High voltage stability within 1% with 3-phase interleaved conversion
- All time stable operation by regenerative energy absorption from the load side

Key specifications

Input voltage	3ph 3-wire AC 380V/76A 60Hz with type 1 protective ground
Output voltage	DC 580 ~ 795V, 87A
Rated power	50kW/55kVA
Communication	Modbus/TCP
Ambient condition	-20 ~ +45℃, 95% RH or below (non-condensing)
Cooling	Forced air-cooled (Fan installed in PEBB module)
Acoustic noise	< 70db
Protection	IP54 (Outdoor) / IP21 (Indoor)

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DC Power Supply
ENEREX A4xxxH

▪ EneRex A40xxH

• Exterior (IP54)

• Production specification

Compact outdoor DC power supply/simulator Specifications		50kW	100kW
Product	Model code	A4050-65/62/55/52HN2D	A4100-65/62/55/52HN2D
Functionality	Applications	DC power supply, DC power simulator	
	Comm Protocols	Modbus TCP/IP	
Electric Chrs (AC/Input side)	Rated continuous AC power	50 kW/ 55kVA	100 kW/ 110kVA
	Short time continuous AC Power	150% for 30 sec, 125% for 10 Min (% of rated power)	
	AC Voltage / connection	380 ~460 Vrms, 50/60Hz, 3-phase, 3-wire	
	Over Voltage Category	Cat. III (Rated impulse voltage 4kV)	
	Rated AC current	76 Arms @380Vrms	152 Arms @380Vrms
	Grid frequency	50/60 Hz	
	Power factor (@ rated)	0 - 1.0 leading and lagging	
	Current harmonic levels (@ rated)	< 3% at rated AC power	
	Grid Interface/isolation	No Built-in Transformer	
Electric Chrs (DC/Output side)	Maximum DC power	55 kW	110 kW
	DC voltage range	580 ~ 795 Vdc	
	Maximum DC current	87 Adc	164 Adc
	Control mode	Constant Voltage (CV)	
Control Chrs	Control system philosophy	Multi-layer control structure (HMI – SMU – IMC)	
	Voltage accuracy	±1%	
	Response time for load step changes	20ms from issuing a signal	
Protection	H/W Protective Functions	Grid over/under voltage, over/under frequency, DC over/under voltage, Grid/DC over current, overheat	
	Fault current contribution	200%	
Performance	Max. conversion efficiency	> 95% at rated AC power (one-way)	
Mechanic Chrs	Dimension (W xH xD, IP54)	624 x 1650 x 1240 mm^3	624 x 1850 x 1240 mm^3
	Dimension (W xH xD, IP21)	600 x 1500 x 900 mm^3	600 x 1500 x 900 mm^3
	Weight (Approx.)	270kg	350kg
	Max. audible noise	< 75dB with cooling system, < 60dB as fan-less operation	
Environment	Enclosure protection rating	IP54 / IP21	
	Operating ambient temperatures	-20 ~ +45 deg C	
	Stroage ambient temperatures	-20 ~ +70 deg C	
	Humidity	0 ~ 95% RH (Non-condensing)	
	Vibration	< 2.0 m/s2	
	Shock	Not acceptable	
	Pollution degree	PD II (Normally only nonconductive pollution occurs)	
	Max. installation altitude (from sea-level)	1000 m	
Compatible Standards	EMC	IEC 61000-6-2, IEC 61000-6-4	
	Safety	IEC 62040-1	

Creating, Leading, Evolving a New Energy paradigm

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