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LEGEND CONTROL MANUAL

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LEGEND ARD-1 Three Phase

Features of ARD

- 1 It is designed with smart microProcessor, and can immediately detect the power supply of the elevator and safely descend the elevator and reach to floor under any emergency.
- 2 It adopts V3F technology to adapt the variable voltage and frequency, reliably supply power to the elevator.
- 3 It is designed with compound control circuit.
- 4 It is equipped with stainless steel button, high sensitivity, the across current is large and resistance is small.
- 5 It adopts LCD display. with indicator of fault or bad operation.



Technical Parameters

Model	LEGEND-3P500	LEGEND-3P300	LEGEND-3P220	LEGEND-3P185	LEGEND-3P150	LEGEND-3P110	LEGEND-3P75	LEGEND-3P50
Power	50KW	30KW	22KW	18.5KW	15KW	11KW	7.5KW	5KW
Input	Three Phase AC380/450 $\pm 10\%$ 50HZ/60HZ				Three Phase AC220 $\pm 7\%$ 50HZ/60HZ			
Output	Three Phase AC380/450 $\pm 10\%$ 50HZ/60HZ				Three Phase AC220 $\pm 7\%$ 50HZ/60HZ			
Battery	Lead-acid Battery or Lithium Battery							
Size	700*470*225		580*470*225		515*400*172		510*400*153	

LEGEND ARD-2 Single Phase

Features of ARD

- 1 It is designed with smart microprocessor, and can immediately detect the power supply of the elevator and safely descend the elevator and reach to floor under any emergency.
- 2 It adopts V3F technology to adapt the variable voltage and frequency, reliably supply power to the elevator.
- 3 It is designed with compound control circuit.
- 4 It is equipped with stainless steel button, high sensitivity, the across current is large and resistance is small.
- 5 Working status indicator.
- 6 Auxiliary 220V control power design.



Technical Parameters

Model	LEGEND-2P220	LEGEND-2P185	LEGEND-2P150	LEGEND-2P110	LEGEND-2P75	LEGEND-2P55
Power	22KW	18.5KW	15KW	11KW	7.5KW	5.5KW
Input	Three Phase	AC380 $\pm 10\%$ 50HZ/60HZ		Single Phase	AC220 $\pm 7\%$ 50Hz/60Hz	
Output	Single Phase	AC380 $\pm 10\%$ 50Hz/60Hz		Single Phase	AC220 $\pm 7\%$ 50Hz/60Hz	
Battery	Lead-acid Battery or Lithium Battery					
Size	515*415*174			510*410*155		

LEGEND ARD-3 Lithium Battery

Features of ARD

- 1 It is designed with smart microprocessor, and can immediately detect the power supply of the elevator and safely descend the elevator and reach to floor under any emergency.
- 2 It adopts V3F technology to adapt the variable voltage and frequency, reliably supply power to the elevator.
- 3 It is designed with compound control circuit.
- 4 It is equipped with stainless steel button, high sensitivity, the across current is large and resistance is small.
- 5 Working status indicator.
- 6 Auxiliary 220V control power design.



Technical Parameters

Model	LEGEND-150		LEGEND-110	LEGEND-75	LEGEND-55	LEGEND-35
Power	15KW		11KW	7.5KW	5.5KW	3.5KW
Input	Three Phase	AC380 ±10% 50Hz/60Hz	Three Phase	AC220 ±7% 50Hz/60Hz		
Output	Single Phase	AC380 ±10% 50Hz/60Hz	Single Phase	AC220 ±7% 50Hz/60Hz		
Battery	Lithium Battery					

LEGEND ARD-5 Sine Wave

Features of ARD

- 1 It is designed with smart microprocessor, and can immediately detect the power supply of the elevator and safely descend the elevator and reach to floor under any emergency.
- 2 It adopts V3F technology to adapt the variable voltage and frequency, reliably supply power to the elevator.
- 3 It is designed with compound control circuit.
- 4 It is equipped with stainless steel button, high sensitivity, the across current is large and resistance is small.
- 5 Working status indicator.
- 6 Auxiliary 220V control power design.



Technical Parameters

Model	LEGEND-220	LEGEND-185	LEGEND-150	LEGEND-110	LEGEND-75	LEGEND-55
Power	22KW	18.5KW	15KW	11KW	7.5KW	5.5KW
Input	Three Phase	AC380 ±10% 50Hz/60Hz		Three Phase	AC220 ±7% 50Hz/60Hz	
Output	Single Phase	AC380 ±10% 50Hz/60Hz		Single Phase	AC220 ±7% 50Hz/60Hz	
Battery	Lead-acid Battery					
Size	510*400*155		495*307*137		502*307*112	

LEGEND Villa Dedicated ARD-2S500

Product characteristics

- 1 New technology:** this product adopts monolithic integrated circuit SPWM modulation, with strong ability, small heat, Features of high efficiency.
- 2 High efficiency:** the input and output of this product use high-frequency transformer to achieve battery charging and power supply boost and inverter, small volume, high power conversion efficiency.
- 3 Safer:** This product realizes double power failure detection, to ensure that the power grid will not be misjudged because of the single-detection loop error, and then occur in the normal power supply emergency output of this terrible fault.



Technical Parameters

Model	LEGEND-ARD-2S500
Input Voltage	AC220V
Output Voltage	AC220V
Cell Voltage	DC24V
Output Power	600W
Boundary Dimension	246mm(L)*159mm(W)*70mm(H)
Weight	2.6Kg

Emergency Lighting Power Supply

- 1 Mains Power or Circuit Failure**
- 2 Safety Loop Control Power Failure**
- 3 The Failure of the Door Lock Circuit**
- 4 DC24V Control Voltage Circuit Fault**

As long as any of the above fault conditions occurs, the power supply will quickly output the emergency voltage within 0.5 seconds, and continue to provide the power required by each control loop (such as loose gate circuit, lighting circuit, etc.) and the attached small-scale electrical appliances, so that the elevator Timely emergency operation.



Technical Parameters

Model	LEGEND110/06D	LEGEND110/12D	LEGEND220/06D	LEGEND110/06D
Power Input	AC110V±10%50Hz		AC220V±10%50Hz	
Output	DC06V	DC12V	DC06V	DC12V
Battery capacity	2.6AH	2.6AH	2.6AH	2.6AH
Working life	Charging&Discharging500 times			
Output voltage	-10°C-55°C			

UPS Inverter UPS

Product Features

- 1 This product uses green, environmental protection, pollution-free lithium battery.
- 2 Any different power modules can be connected in parallel, convenient expansion
- 3 A variety of discharge modes, optional and convenient
- 4 vector control technology



Technical Parameters

Model	LEGEND-1000UPS	LEGEND-2000UPS
Rated Power	1000W	2000W
peak power	1600W	3000W
Input voltage	AC110V-250V	AC110V-250V
Output Waveform	Modified wave	Modified wave
weight	2.6kg	4.95Kg

EBOPS

Product characteristics

- 1 Circuit board design: challenge high precision standard high precision circuit board design, so as to ensure product quality, provide stable and efficient pure power output.
- 2 High-standard three-core power cable: only high-standard three-core power supply input cable is used. The copper core (non-copper clad iron, copper clad aluminum) has passed the national 3C certification.
- 3 Built-in lithium battery: lithium battery has high voltage, light weight, long life, high density, and low self-discharge, no memory effect, the most important is green, environmental protection, pollution-free.



Technical Parameters

Model	LEGEND-EBOPS
Rated Power	500W
Peak Power	800W
Input voltage	AC110V-250V
Output Voltage	AC220V
Output Frequency	50Hz / 60Hz
Output Waveform	Modified wave
Weight	2.6kg

Three Phase Automatic Voltage Regulator

Product Features

- 1 PCB: With under&over voltage protection, overheat, overload short-circuit protection, Delay output, reliability improved.
- 2 Transformer: 100% copper/aluminium transformers, high silicon steel, temperature protection, PCB Control.
- 3 A.C. contactor: Using the best quality-85% silver point to make sure long life meanwhile to make machine runs silently.



Technical Parameters

Model	Three Phase Automatic Voltage Regulator
Specification	5KV-40KV
Input voltage	280V-520V
Output voltage	400V±3%
Color	White
Input phase sequence	Phase Three Phase+Neutral+Grounding

Switching Power Module

Product Features

- 1 It has the characteristics of small size, high power density and green environmental protection.
- 2 This series of power supply also has the advantages of AC/DC dual use, wide input voltage range, high reliability, low power consumption, safety isolation and so on.
- 3 It is suitable for industrial control and power instrumentation, smart home, new energy field and other occasions with demanding volume requirements, to meet the needs of multi-industry products.



Technical Parameters

Model	LRS-180-24
Normal voltage range	110Vac-120Vac 220Vac-240Vac
Input voltage	90Vac-132Vac 180Vac-264Vac(toggle)
Output voltage	+24V
Color	Silver gray
Max. Input Current	2.0A Max. at full load condition 220Vac

Power supply board

Product Features

- 1 The power output of this product has adjustable pressure rise and fall characteristics.
- 2 The product has a self recovery output function after a fault. When the DC24V output is short circuited or overloaded excessively, the switch power protection function is activated. After 2-6S of rejection, the power switch clears the fault state and restores the output. When the external short circuit or cross line is still severe, the output continues to be turned off
- 3 The product has a small size, simple installation, and strong scalability.



Technical parameter

Model	LEGEND-PCB2-A2		
Input	220VAC (-10%~+15%)		
frequency	50Hz/60Hz	Output	DC110V (±10%)
Maintain voltage	DC78V(±10%)	Rated current	5A
Switch output voltage	DC24V(±10%)	Output power	1000W
Size	210mm × 115mm		

Electric Brake Loosing Device

Product Features

- 1 When acquiring the signal in door area, it will automatically stop voltage output, thus releasing the brake and stopping the movement of elevator. At the door area, press the "forced output" button to open the brake.
- 2 The signal at the door area may be magnetic induction reed signal or infrared photoelectric signal.
- 3 Connect with the door lock signal, when the door lock is disconnected, the system can't output voltage and the brake can't be opened.
- 4 It has timing function. once starting boost output, at most last 5mins. and if the key do not be pressed within 30seconds, all output would be stopped automatically for energy conservation.
- 5 After drive opens the band-type brake, it delays 1s to transfer to power saving mode and maintenance voltage for brake coil works to save the energy of battery.
- 6 with the smallest size of similar products, exquisite structure, easy to install and high reliability.
- 7 Adopt new type lithium battery as power battery, featuring long service life, work stable, light weight and high reliability.
- 8 The device with overload protection function.



Technical Parameters

Model	LEGEND-EPB110A, B	LEGEND-EPB220A, B
Input voltage	AC220V 50Hz/60Hz	
Output voltage	Excitation voltage 110VDC, maintaining voltage 75VDC	Excitation voltage 110VDC maintaining voltage 115VDC
Normal load power	≤200W~600W ≤1Kw Overload protection	
Physical dimension	A:L197.7mm × W165.5mm × H99.3mm B:L190mm × W139mm × H87mm	

Note: particular large power need customize.



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