

# **AMERSON INDIA**

#### **ON-LINE LIFT UPS & ARD AUTOMATIC RESCUE DEVICE**

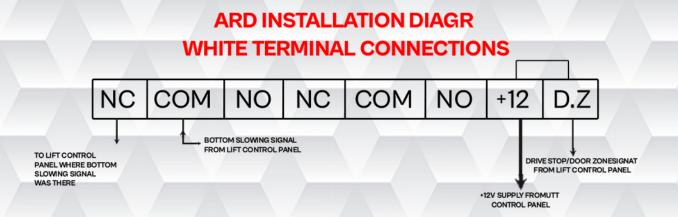
#### **AMERSON ARD SERIES (5HP to 120 HP)**

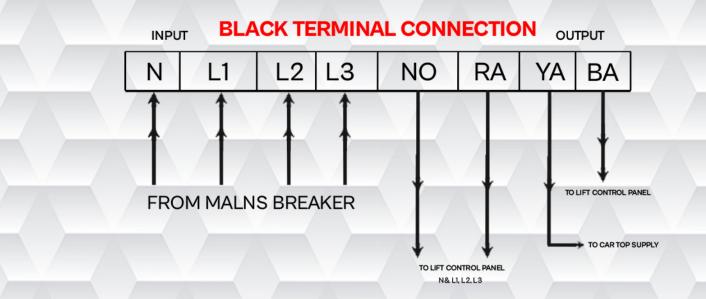
#### **APPLICATION:**

- Safe and reliable operation.
- Elevators & Escalators process and other mission- critical equipment

#### **FEATURES:**

- Adcance operation mode
- Almost independent of lift controllers means Lesser wires are going & coming from controller to ARD.
- No need of emergency lights in the elevator car
- Door type cabinet for easy access inside the ARD in case of trouble shooting.
- Can be connected to single phase site.
- IGBT based charging for longer battery life.
- Digital Signal processing for constant pure sine wave output.
- IGBT technology for higher reliability of ARD.





# **ABOUT US**

A short journey in the lifts could abruptly turn to something very tense andscary should there be a power failure with no ARD insralled. Discover the relieving experience of getting out of trapped doors with "AMERSON INDIA" our reliable & economical lift ARD that brings you safely down to the nearest operating floor & opens the door. Trusted and proven technology universally accepted by lift manufacturers.

#### **APPLICATION:**

MRL/Gearless/Geared and Hydraulic Motors.

#### **PRODUCT OFFERINGS:**

- Regular ARD 5 HP to 120 HP (2 Phase Output/Single Phase Output)
- ARD for 3 Phase Operations-Otis, Kone, Sehindler
- 3 Phase ARD with Backup and Rescue.
- Jarkless ARD for Hotels/Hospitals.
- Servo Stabilizer with isolation transformer
- New Launch 3Phase ARD Low cost.
- 3Phase Input & 3Phase Output.
- Input Voltage 165Vac-275Vac Per Phase (3Phase+N).
- Input Frequency 50Hz ± 10%.
- Battery Voltage 72V to 120V available.
- Output Voltage 440Vac ± 5%.
- Output Wave Form Pure Sine Wave.
- Output Frequency 50HZ ± 5%.
- Inverter Efficiency ≥ 88%
- Waveform Distortion Liner Load ≤ 5%
- Inverter Overload 110% Shut down within 60sec. 120% Shut Down within 5sec.
- Over Temperature > 80 °C
- Feedback Failure for >100m Sec.
- Batter Voltage < 1.60V Per Cell.</p>
- Batter Voltage Starting 72V to 120V available.
- ARD for 3Phase Operations-Otis, Kone, Sehindler, Thyssenkrupp.







#### ON-LINE LIFT UPS & ARD AUTOMATIC RESCUE DEVICE

with Isolation Transformer suitable for Three Phase AC Input, Single & 2 Phase, 3 Phase AC Output, Floor Mounted Type



Switching Frequency Greater than 17.5KHz

INPUT

Voltage Window 300V to 450V AC Frequency 45 to 55 Hz

Power Factor 0.9 at 100% Linear Load Input Current THD <3% at 100% Linear Road

**OUTPUT** 

Rated Voltage 400 V AC

Voltage Regulation ± 1%

Capacity 1 KVA to 60 KVA
Rated Power Factor 0.9 Lagging

Wave Form Pure Sine Wave (No Load to Full Load)

Frequency Stability ±0.2% (Free Running)

Frequency Regulation 50 Hz ± 0.5%

Transfer Time Zero
Crest Factor 3:1

Efficiency (AC to AC, Better than 90%

Normal)

Distortion (THD) <2% for linear Load & < 5% for Non-Linear Load For 100% step load Transient Response change output stays within ±5% and recovers within ½ cycles.

LCD Display Input Voltage, Output Voltage, Output Frequency, Output Current, Battery Voltage,

Charging Current.

Overload Rating 100% Continous & 150% for 30 Seconds.

Operation Temperature O to 50°C, 95% RH (Maximum)

Protections Output Over/Under Voltage, Output Overload, Output short Circuit, Battery

under Voltage, DC High

Genset Compatibility UPS & ARD systems is fully compatible to any type of Genset

Indications Main On, Mains fail, ARD & UPS on, UPS & ARD Trip,

Alarms Battery Charging, Battery low, Overload, Battery Low Warning, Battery Low Trip,

Overload, UPS & ARD Trip, Mains Fail

**BATTERY** 

Quantity 4 to 30 Nos.

DC Voltage 48V to 360V

Charging Current 0.7 Amp to 10 Amp

Battery Charger is designed on Boost/Trickle (CCCV) principal to keep batteries in good

condition

**PHYSICAL** 

Dimensions WxHxD in mm 5 to 15KVA (460x610x1020) & 20 to 30KVA (460x770x1120) 40 to 60KVA (540x900x1320)

Height Without Wheel

**ELEVATORS & ESCALATORS INTERFACE** 

Interface Type Standard: ARD 5Hp & 25Hp











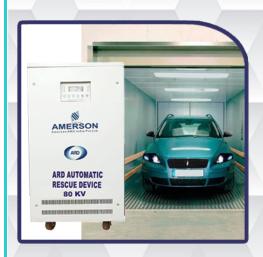




# WE MANUFACTURE ARD & UPS (SINGLE PHASE ARD) SUITABLE FOR ALL KIND OF CONTROLLER

Mains Fail ARD on Time Seleted in Deep Switch ARD Board. 0 to 20 Second Car Lift ARD Backup Time Urgestment 1 Hourse to 6 Hourse Running High Speed

Mains Fail ARD on Time Seleted in Deep Switch ARD Board, 0 to 20 Second Good Lift ARD Backup Time Urgestment 1 Hourse to 3 Hourse Running High Speed Mains Fail ARD on Time Selcted in Deep Switch ARD Board. 0 to 20 Second 30 Second to 3 Mintue 2 Hospital Lift ARD Backup Time Urgestment







Mains Fail ARD on Time Seleted in Deep Switch ARD Board, 0 to 20 Second Home Lift ARD Backup Time Urgestment

Mains Fail UPS on Time -0
Off Time 3 Minute MRL
Lift UPS Backup Time
Urgestment

Mains Fail UPS on Time-0
Off Time 3 Minate
Hydraulic Lift Single
Speed UPS Backup Time
Urgestment







#### Monark Controller

#### Thita Controller

#### **Philbrick Controller**







A to Z. Elevators & Escalators Controller

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Seleted in Deep Switch
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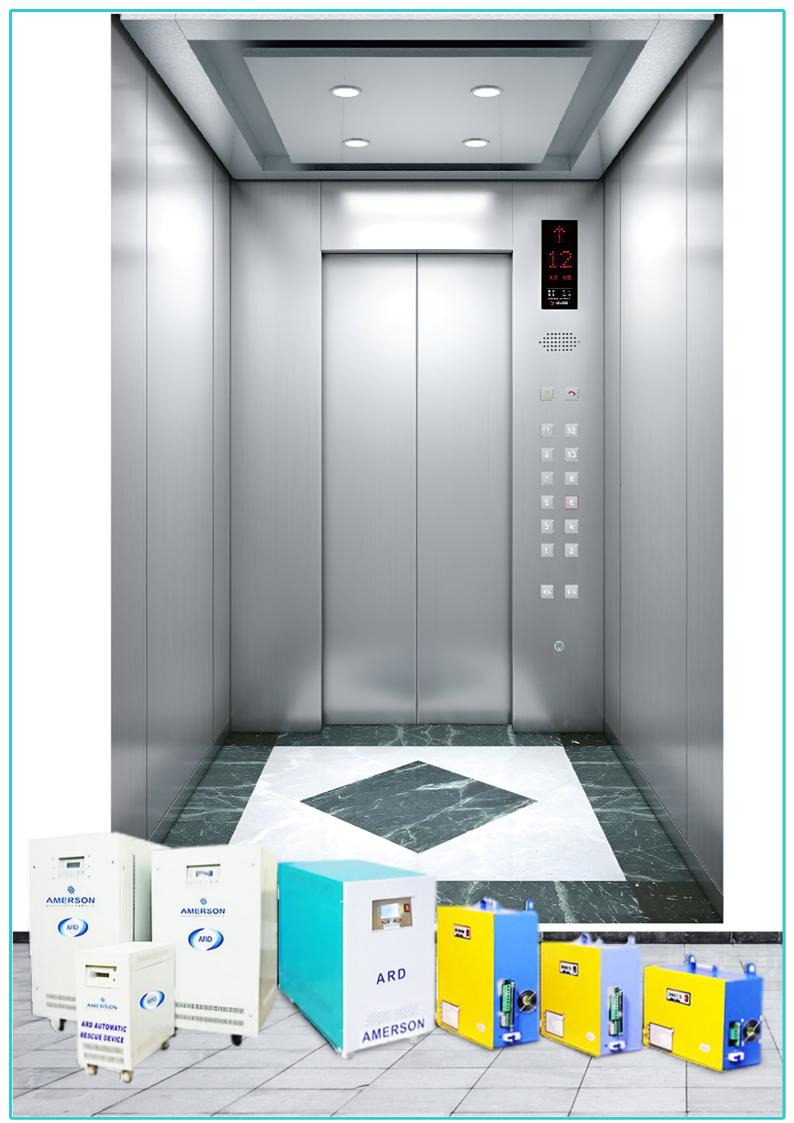












### **PRODUCT FEATURES**

- Digital Signal Processing based design.
- > PID control inverter for lower overshoot & undershoot.
- Feedback failure protection
- 6 Fault indications.
- Settable output delay & DZ shutdown delay using DIP switch.
- Automatic shutdown system if ARD in rescue mode and no DZ signal present then ARD will outomatic shutdown after 3 minutes.
- LED Display with 6 fault indications.
- 3 Stage battery charge control system for fast charging & long battery life.
- Mains not transfer during rescue operation. if mains present during rescue operation ARD not transfer mains supply to control panel.
- ARD transfer mains 4 seconds after completion of rescue
- 1 Year standard warranty.

**Battery Low** 

**BATTERY** 

DC Voltage

Configuration

Battery Type

**Charging Current** 

Support 12 volt & 24 volt door zone shutdown input signal

	TECHNICAL SPECIFICATION TO THE PROPERTY OF T								
/	MODEL	5 HP	7.5 HP	10 HP	15HP & 20HP	25 HP			
	DISPLAY								
	Indicator on Panel			LED					
	AC Mode								
	Input Voltage Input Frequency Battery Voltage		16	5Vac 275 Vac Per P 50Hz+ 48V for 5HP &	10%				
	<b>INVERTER Mode</b>								
	Output Voltage Output Wave Form Output Frequency Inverter Efficiency Waveform Distoration			440VA0 Pure Sine 50Hz±0 >889 Liner Lo	e Wave 0.5% %				
	PROTECTIONS								
	Inverter Overload Over Temperature Feedback Failure			110% Shut down 120% Shut Dow . >85	n within 5 sec				

72V

6x12V 7AH

48V

4x12V 7AH

Feedback Fail for 100m sec. Battery Voltage 1.60V Per Cell

72V

6x12V 12AH

SMF

1.5A (Maximum)

72V

6x12V 18AH

96V

8x12V 18AH

#### **OTHERS**

Ambient

Temperature

Recharge Time

Backup Time

Delayed Output

Cooling System

-5°C-50 C

>90% Capacity After 8 Hours

Depends on Battery Capacity

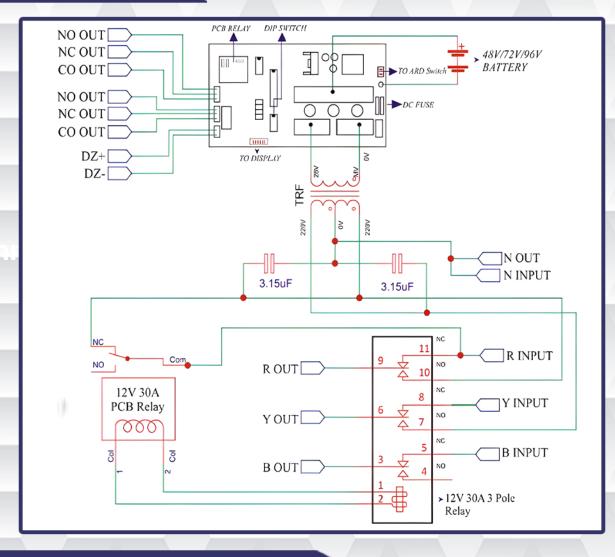
Adjustable 6 Sec. to 20 Sec.

Natural Air Cooling

#### **DIMENSIONS**

(LxWxH)

### **WIRING DIAGRAM**



### **DIP SWITCH CONFIGURATIONS**

DIP Switch 1	DIP Switch 2	Door Zone Off Delav
OFF	OFF	18 SEC
OFF	ON	12 SEC
ON	OFF	06 SEC
ON	ON	01 SEC

DIP Switch 3	DIP Switch 4	Output Delay
OFF	OFF	18 SEC
OFF	ON	12 SEC
ON	OFF	06 SEC
ON	ON	<4 MSEC. (UPS MODE)





#### **GROUP OF COMPANIES**

Mfg.-Lift UPS Single Phase, Lift ARD, Single Phase Converter Online Lift UPS ARD Rescue Device, Lift UPS System

## **AMERSON INDIA**

FIRST FLOOR, NO - 6, H.NO - 11-146/1/A, PATWARI ENCLAVE, OPP - IDPL COLONY, BALANAGAR, HYDERABAD PIN - 500037

+91 93466 28337, +91 63030 64938

amersonservice@gmail.com
amersonardindia@gmail.com
amersonardindiasales@gmail.com





