



An ISO 9001 - 2008 Company

# Automatic Rescue Device (ARD)

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**ACE SERIES (5HP)**

**VX - 05**

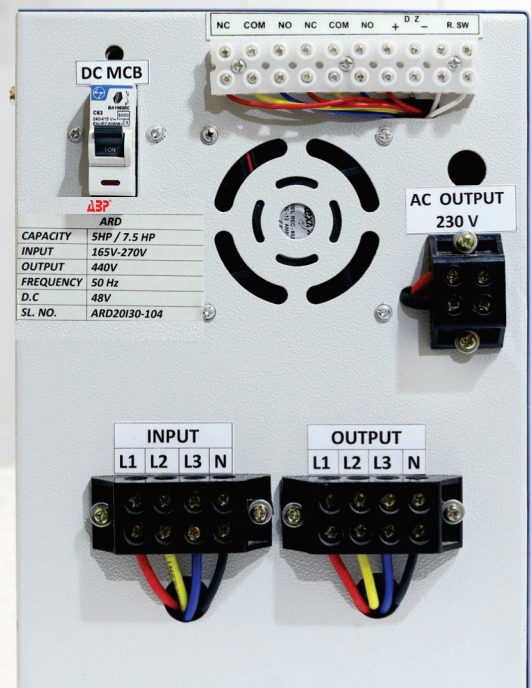


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## Product Description

### AUTOMATIC RESCUE DEVICE (ARD)

(Automatic Rescue Device) Back-up is a Static converter which is used to generate Double Phase output with pure sine wave to provide supply to Lift/ Elevator during Grid failure and switch it off after receiving rescue completed signal (DZ Signal). Powertek provides four manually selectable timers 6sec, 12sec, 20sec & 30sec to switch-off ARD after receiving DZ signal ARD Back-up consists primarily of a Single Phase inverter with Battery charger, a change over module and storage Batteries. The charger is a controlled rectifier that provides a constant voltage and a constant current to charge the Battery bank when the Grid supply is available.



## ABP ACE Series of Automatic Rescue Device (ARD)

Technical Specification		ARD			
Series		ACE			
Model No.		VX5	VX7.5	VX10	VX15
Rating		5HP	7.5HP	10HP	15HP
DC Voltage		48V	48V	72V	72V
No. Of Batteries		4	4	6	6
<b>Mains</b>					
No of Phase	-	3 Phase - 4 Wire R,Y,B,N			
Voltage Range	Volts	165V- 270V			
Mains low Recovery Range	Volts	10V			
Mains High Recovery Range	Volts	5V			
Frequency Range	Hz	50 +/-3			
Battery Charging Stages	-	3			
<b>Inverter</b>					
Switching Power Device	-	Mosfet			
Control	-	PWM			
Output Voltage	Volts	440V +/-2%			
Phase	-	Double phase-2 Wire R,Y			
Output Waveform	-	Sinewave			
Frequency	Hz	50			
Changeover UPS/ARD to Mains	-	3 Sec.			
Changeover Mains to UPS/ARD	-	=12s			
Output Power Factor	Pf	0.8			
Switch	-	ARD ON/OFF			
Indication	-	Inverter ON, Batt.Low/High, Overload Mains Charging ON, Mains ON @ DZ			
Alarm	-	Batt. Low, Overload, Charger ON, InverterON			
Protection	-	Overload, short Circuit Protection, over Voltage, Mains Surge and Transient Protection (MOV Varistors), Reverse Polarity of Batt. Over Temperature Protection under voltage and over voltage protection			
Operating Temp	C	0-50			
Operating Humidity	%	<95			
Protection class	-	IP20			
<b>Output</b>					
Output @ No Load	Volts	440 +/- 2%			
Output Frequency	Hz	50 +/-2%			
Output @ Full Batt. to Low Batt	Volts	220 +/-			
Output Low Cut	Volts	330V			
Output High Cut	Volts	520V			
Output Low Retry	--	1 Time			
Output Short Circuit	--	1 Time			
UPS/ARD Backup Time	Min	3 Minutes			
No Load Battery Current	%	2%			
Overload	Current	3.6A/KVA			
<b>Battery</b>					
Low Cut Off	Volts	10/Batt. +/- 2%			
Low Cut Off Recovery	Volts	12/Batt. +/- 2%			
Low Buzzer	Volts	10.5/Batt. +/- 2%			
High Cut Off	Volts	15.5/Batt. +/- 2%			
High Cut Off Recovery	Volts	15.0/Batt. +/- 2%			
Charging Current by Grid	Amps	1 to 3 +/- 2% (selectable)			
<b>Charger</b>					
Switching Element		MOSFET			
Control Type		Microcontroller			
Type of Charger		Booster			
Efficiency		95%			
Battery Charging Stages		Three Stage battery charging to keep batteries ready for rescue			
Power Factor		0.8			



\* Specification are subjected to change without prior notice.

## **ABP** ABP POWER SOLUTIONS PVT. LTD.

An ISO 9001 - 2008 Company  
8th Floor HB Twin Tower, Netaji Subhash Place ( Above Max Hospital ), Delhi -110034  
E-mail : sales@abppowers.com, Website : www.abppowers.com  
Contact No.: 9810619346, 9811143059



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