

**PT POWERTEK ELECTRONICS**  
THE POWER OF A NEW BHARAT

**AUTOMATIC RESCUE DEVICE  
(ARD)**

ACE SERIES  
PRO SERIES  
MERIDIAN SERIES

**SUPER RELIABLE  
ELEVATOR SOLUTIONS**



# TECHNICAL SPECIFICATIONS

## Key Features

- \* Compatible with Generator
- \* Pure Sinewave Output
- \* Quick Installation
- \* Long Run Battery
- \* Low Voltage DC Operation

- \* Advance Operation Mode
- \* Easy Installation
- \* Compact size also available in wall mounting Cabinet
- \* Improved charge for Low AH Batteries.

- \* Advance Operation Mode
- \* Compatible with Generator
- \* Pure Sinewave Output
- \* Easy Installation
- \* Long Run Battery

## PRODUCT DETAILS

Model	PRO SERIES				ACE SERIES				MERIDIAN SERIES							
Variant	1 Phase I/P - 3 Phase O/P				2 Phase I/P - 2 Phase O/P				3 Phase I/P - 3 Phase O/P							
Rating	5 HP	7.5 HP	10 HP	15 HP	5 HP	7.5 HP	10 HP	15 HP	5 HP 7.5 HP	10 HP 15 HP	20 HP	25 HP 30 HP				
Operating DC voltage	180V				48V				72V				180V		192V	
No. of Batteries	15				4				6				15		16	
<b>MAINS MODE</b>																
No of Phase	1 Phase - 2 Wire P, N				3 Phase - 4 Wire R, Y, B, N				3 Phase - 4 Wire R, Y, B, N							
Voltage Range	170V - 270V AC				170V - 270V AC				380V - 460V AC							
Main low Recovery Range	10V				10V				10V							
Main High Recovery Range	5V				5V				5V							
Frequency Range	50 Hz +/- 3 Hz				50 Hz +/- 3 Hz				50 Hz +/- 3 Hz							
Battery Charging Stages	2				3				2							
<b>INVERTER MODE</b>																
Switching Power Device	IGBT MODULE				MOSFET				IGBT							
Control	PWM				PWM				PWM							
Output voltage (P-P)	400V AC +/- 1%				400V AC +/- 1%				400V AC +/- 1%							
Phase	3 Phase - 4 wire R, Y, B, N				2 Phase - 4 wire R, Y, B, N				3 Phase - 4 wire R, Y, B, N							
Output Waveform	Pure Sine Wave				Pure Sine Wave				Pure Sine Wave							
Changeover Time UPS/ARD to Mains	0ms				3 Sec				3 Sec							
Changeover Time Mains to UPS/ARD	0ms				12 Sec				3 Sec							
Rated Output Power Factor	0.8				0.8				0.8							
LED Indication	Mains ON, Charging ON, UPS ON, Low Battery, Over Load				Mains ON, Charging ON, UPS ON, Low Battery, Over Load				Mains ON, Charging ON, UPS ON, Low Battery, Over Load							
Alarm	Battery Low, Overload, Charger ON				Battery Low, Overload				Battery Low, Overload, Charger ON							
Protection	Overload, Short Circuit Protection, Over Voltage, Mains Surge & Transient Protection, Reverse Polarity of Battery				Overload, Short Circuit Protection, Over Voltage, Mains Surge & Transient Protection, Reverse Polarity of Battery				Overload, Short Circuit Protection, Over Voltage, Mains Surge & Transient Protection, Reverse Polarity of Battery							
Low Cut Off & High Cut Off	10.5V/Battery +/- 2% & 14.4V				10.5V/Battery +/- 2%				10.5V/Battery +/- 2%							
Battery Low Buzzer	10.75V/ Battery +/- 2%				10.75V/ Battery +/- 2%				10.75V/ Battery +/- 2%							
<b>AC OUTPUT</b>																
Output @ No Load	400 +/- 2%				400 +/- 2%				400 +/- 2%							
Output @ Full Batt. to Low Batt.	400 +/- 2%				400 +/-10%		220 +/-10%		400 +/-10%							
O/P Low Cut & O/P High Cut	330V & 450V				330V & 450V				330V & 450V							
Output Short Circuit	1 Time				5 Times				1 Time							
UPS/ARD Backup Time	As Per Requirement				3 Minutes				As Per Requirement							
<b>CHARGER</b>																
Switching Element	IGBT				MOSFET				IGBT							
Control Type	DSP				Microcontroller				DSP							
Type of Charger	PFC				Booster				PFC							
Efficiency	95%				95%				95%							
Battery Charging Stages	2 Stage Battery Charging to Keep Batteries Ready for Rescue				3 Stage Battery Charging to Keep Batteries Ready for Rescue				2 Stage Battery Charging to Keep Batteries Ready for Rescue							
Power Factor	0.8				0.8				0.8							

**Works:** Plot No-R-24A, Gali No.11, Anand Parbat Indl. Area, New Delhi-110005

**Regd. Office:** RZF-2/89, Gali No. 4, Mahavir Enclave, Palam, New Delhi-110045

**E-mail:** info@powertekelectronics.net | powertekelectronics2k@gmail.com

**Contact:** +91-9810232390 | +91-9212374339 **Web:** www.powertekelectronics.net