



# Ador PowerAce

True Online Double Conversion UPS

6 kVA to 100 kVA

- ✓ High Input Power Factor
- ✓ Inbuilt Output Isolation Transformer
- ✓ State Of the Art Digital Control



# True On Line Double Conversion UPS Systems

## Technical Specifications

Parameter	1Ø - 1Ø Series		3Ø - 1Ø Series			
Model	Prime 611	Prime 1011	Master 3110	Master 3115	Master 3120	Master 3125
Ratings	6 kVA	10 kVA	10 kVA	15 kVA	20 kVA	25 kVA
Output Rating	4.8 KW	8 KW	8 KW	12 KW	16 KW	20 KW
Nominal DC	192 V	240 V	240 V		360 V	
Topology	PWM IGBT Based DSP Control		PWM IGBT Based Digital Control			
Configuration	Standalone		Standalone			
<b>INPUT</b>						
Voltage	230 VAC, 185 to 265 VAC		415 VAC, 335 to 475 VAC			
Frequency	50 Hz, 48 to 52 Hz		50 Hz, 48 to 52 Hz			
Power Factor	> 0.98		> 0.92			
<b>OUTPUT</b>						
Voltage	230 VAC ± 1%		230 VAC ± 1%			
Frequency	50 Hz ± 0.1% in Free running & ± 4% in Sync		50 Hz ± 0.1% in Free running & ± 4% in Sync			
Isolation Transformer	Provided		Provided			
Power Factor	0.8 Lag		0.8 Lag			
Crest Factor	3:1		3:1			
Waveform	Sine Wave		Sine Wave			
THD	< 3% on linear load		< 3% on linear load			
Overload	110% for 30 minutes		110% for 30 minutes			
	125% for 10 minutes		125% for 10 minutes			
	150% for 1 minute		150% for 1 minute			
Transient Response	For 0 - 50% & 50% - 100% load change voltage remains within ± 5%					
Efficiency	> 90%		> 90%			
Protections	Input & Output Over / Under Voltage		Input & Output Over / Under Voltage, Single Phasing			
	DC Over / Under Voltage		DC Over / Under Voltage			
	Battery Charging Over Current		Batt Charging Over Current			
	Output Overload / Short Circuit / Over Temp.		Output Overload / Short Circuit / Over Temp.			
<b>STATIC SWITCH</b>						
SCR Static Switch	Provided with changeover < 5msec in sync		Provided with changeover < 5 msec in sync			
	Provided with changeover < 20msec in non-sync		Provided with changeover < 20msec in non-sync			
<b>GENERAL</b>						
Audio Alarm	Mains Fail, Battery Low Pre-alarm, Inverter Trip		Mains Fail, Battery Low Pre-alarm, Inverter Trip			
Metering	2x16 Character small LCD display to monitor		2x16 Character small LCD display to monitor			
	Input Voltage, Current & Frequency		Input Voltage, Current & Frequency			
	Battery Voltage, Charging & Discharging Current		Battery Voltage, Charging & Discharging Current			
	Output Voltage, Current & Frequency		Output Voltage, Current & Frequency			
Messages	Input On / High / Low / Fail		Input On / High / Low / Fail / Single Phasing			
	Battery On / Low Trip/ High		Battery On / Low Trip/High			
	UPS On / Off		UPS On / Off			
	Output Low / High / Overload / Fail / Short Circuit		Output Low / High / Overload / Fail / Short Circuit			
Indications	Over Temperature		Over Temperature			
	Mains On / Fail		Mains On / Fail			
	Battery On / Low		Battery On / Low			
Switchgear	Inverter On / Trip		Inverter On / Trip			
	MCB for Input, Battery & Output		MCB / MCCB for Input, Battery & Output			
	IP 20		IP 31			
Operating Temp.	0 to 40 Deg C		0 to 40 Deg C			
Humidity	Upto 95% Rh (non-condensing)		Upto 95% Rh (non-condensing)			
Cooling	Forced Air		Forced Air			
Noise	< 55 dB		< 60 dB			
Charging Current	2 to 10 Amps.		2 to 10 Amps.		5 to 15 Amps.	
Cold Start	Provided		Provided			
Communication	RS 232		RS 232			
SNMP	Optional		Optional			
Dimensions (W x D x H) (mm)	260 x 525 x 435	400 x 700 x 1050	400 x 700 x 1050		500 x 800 x 1050	

■ All specifications are subject to change without prior notice.

# True On Line Double Conversion UPS Systems

## Technical Specifications

Parameter	3Ø - 3Ø Series						
Model	Master 3320	Master 3330	Master 3340	Master 3350	Master 3360	Master 3380	Master 3300
<b>Ratings</b>	<b>20 kVA</b>	<b>30 kVA</b>	<b>40 kVA</b>	<b>50 kVA</b>	<b>60 kVA</b>	<b>80 kVA</b>	<b>100 kVA</b>
Output Rating	16 KW	24 KW	32 KW	40 KW	48 KW	64 KW	80 KW
Nominal DC	360 V						
<b>Topology</b>	PWM IGBT Based Digital Control						
<b>Configuration</b>	Standalone / Parallel Redundant / Hot Standby / N+1						
<b>INPUT</b>							
Voltage	415 VAC, 335 to 475 VAC						
Frequency	50 Hz, 48 to 52 Hz						
Power Factor	> 0.92						
<b>OUTPUT</b>							
Voltage	415 VAC ± 1%						
Frequency	50 Hz ±0.1% in Free running & ±4% in Sync						
Isolation Transformer	Provided						
Power Factor	0.8 Lag						
Crest Factor	3:1						
Waveform	Sine Wave						
THD	< 3% on linear load						
Overload	110% for 30 minutes						
	125% for 10 minutes						
	150% for 1 minute						
Transient Response	For 0 - 50% & 50% - 100% load change voltage remains within ±5%						
Efficiency	> 90%						
Protections	Input & Output Over / Under Voltage, Single Phasing						
	DC Over / Under Voltage						
	Batt Charging Over Current						
	Output Overload / Short Circuit / Over Temp.						
<b>STATIC SWITCH</b>							
SCR Static Switch	Provided with changeover < 5 msec in sync						
	Provided with changeover < 20msec in non-sync						
<b>GENERAL</b>							
Audio Alarm	Mains Fail, Battery Low Pre-alarm, Inverter Trip						
Metering	2x16 Character big LCD display to monitor						
	Input Voltage, Current & Frequency						
	Battery Voltage, Charging & Discharging Current						
Indications	Output Voltage, Current & Frequency						
	Mains On / Fail, Battery On / Low, Inverter On / Trip						
	DC On / High & Batter Low Pre-alarm / Low Trip						
Switchgear	Inverter On / Trip / High / Low / Overcurrent						
Enclosure	MCCB for Input, Battery & Output						
Operating Temp.	IP 31						
Humidity	0 to 40 Deg C						
Cooling	Upto 95% Rh (non-condensing)						
Noise	Forced Air						
Charging Current	< 65 dB						
Cold Start	5 to 15 Amps.		10 to 25 Amps.				
Communication	Provided						
SNMP	RS 232						
Dimensions (W x D x H) (mm)	Optional						
	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	80 kVA	100 kVA
	600 x 900 x 1200		600 x 600 x 1600		800 x 800 x 1800		800 x 800 x 2000

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## Ador PowerAce Applications

- ◆ Local Area Network ◆ Telecom Facilities ◆ Medical Equipments ◆ Automation ◆ Industrial PLCs
- ◆ Industrial Processes ◆ Emergency Devices (Lights/Alarms) ◆ Small & Medium Size Server Rooms
- ◆ Laboratories

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