



SPEED TECHNOLOGY®

An ISO 9001 : 2015 Certified Company



1) UPS 2) STABILIZER 3) INVERTER 4) BATTERY



1) UPS

1KVA / 2KVA / 3KVA / 5KVA



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MODEL		MAX Life ONLINE UPS 1KVA	MAX Life ONLINEBPS 2KVA	MAX Life ONLINEBPS 3KVA	MAX Life ONLINEBPS 5KVA
INPUT					
CAPACITY		1000VA / 900W	2000VA / 1800W	3000VA / 3000W	5000VA / 5000W
VOLTAGE RANGE		110-280 VAC@50%Load ; 176-280 VAC @100% Load			
PHASE		Single Phase with Ground			
FREQUENCY RANGE		40Hz ~ 70Hz		46Hz ~ 54Hz	56Hz ~ 64Hz
POWER FACTOR		≥ 0.99		≥ 0.98 @ Nominal Voltage (100% Load)	
INPUT CURRENT HARMONIC DISTORTION THD(i)		≤ 5% @ 205-245VAC		≤ 8%	
OUTPUT					
NOMINAL VOLTAGE		200*/208*/220/230/240 VAC		220/230/240 VAC	
AC VOLTAGE REGULATION		±1% (Battery Mode)			
FREQUENCY RANGE		Synchronized Range: 50Hz System: 47~53Hz / 60Hz System: 57~63Hz		Synchronized Mode: 46Hz ~ 54Hz or 56Hz ~ 64Hz	
		Battery Mode: 50Hz±0.1% or 60 Hz±0.1%		Battery Mode: 50Hz±0.1Hz or 60Hz±0.1Hz	
CURRENT CRESTRATIO		3:1 (Max)			
HARMONIC DISTORTION		≤ 2% THD (Linear Load) ≤ 4% THD (Non-Linear Load)		≤ 3% THD (Linear Load) ≤ 5% THD (Non-Linear Load)	
TRANSFER TIME	AC to DC	Zero			
	Inverter to Bypass	4ms (Typical)			
WAVE FORM (Battery Mode)		Pure Sine Wave		Pure Sine Wave on AC Input Mode and 50V on Battery Mode	
EFFICIENCY					
ON FULL CHARGED BATTERY		ECO Mode: ≥ 96% / AC Mode: ≥ 89%	ECO Mode: ≥ 96% / AC Mode: ≥ 90%	LINE Mode: 95% / ECO Mode: 99.5% BATTERY Mode: 92%	
BATTERY					
BATT. VOLTAGE		48V			
CHARGING CURRENT (MAX.)		20A max, Current Setting through LCD panel (Adjustable: 2/4/8/10/12/14/16/20A)		60 A (Configurable 10A / 20A / 30A / 40A / 50A / 60A from LCD)	
INDICATORS					
LCD PANEL		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode and Fault Indicator Via LCD			
PHYSICAL					
DIMENSIONS PRODUCT(DxWxH)		397x145x220(in mm)	530x145x220(in mm)	465x190x318(in mm)	
NET WEIGHT PRODUCT(KGS.)		6.4Kgs.	8.6Kgs.	15.5Kgs.	
ENVIRONMENT					
OPERATING HUMIDITY / TEM		20-95% RH and Non-Condensing / 0-45°C		0 to 95% Relative Humidity (Non-Condensing) / 0-50°C	
MANAGEMENT					
COMMUNICATION INTERFACE		RS-232 and USB SNMP Card / MODBUS (Optional)			



CCTV Surveillance | Time Attendance | UPS & Inverter Generator Solutions |
Nurse Call Systems | Audio Visual Solutions | Security & Access Control |
Fire Alarm Systems | EPABX Solutions | Video Door Phones | Smart Lock |
IT Products |

2) STABILIZER



SMART EMR SERIES

MODELS AVAILABLE:



FOR REFRIGERATOR

MODELS	WORKING RANGE	APPLICATIONS	WARRANTY
SMART EMR 2013	130V-295V	1 Refrigerator upto 300Ltr.	3 Years
SMART EMR 2090	90V-260V	1 Refrigerator upto 300Ltr.	3 Years
SMART EMR 4013	130V-295V	1 Refrigerator upto 600Ltr. OR 1 Deep Freezer upto 4Amps.	3 Years

EMT SERIES

MODELS AVAILABLE:



FOR AUDIO VISUAL SYSTEM

MODELS	WORKING RANGE	APPLICATIONS	WARRANTY
EMT 0790	90V-300V	1 LED TV 81cm (32") + 1 DVD/DTH	3 Years
EMT 1390	90V-300V	1 LED TV 122cm (48") + 1 DVD/DTH	3 Years
EMT 2090	90V-300V	1 LED TV 165cm (65") + 1 DVD/DTH OR 1 LED/3D TV Upto 107cm (42") & Home Theater Sys. & DVD/DTH	3 Years
EMT 3090	90V-290V	1 LED/3DTV 122cm (48") & Home Theater System + 1 DVD/DTH	3 Years



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SMART EM SERIES

MODELS AVAILABLE:



FOR AIR-CONDITIONER

MODELS	WORKING RANGE	APPLICATIONS	WARRANTY
SMART EM 4170+	170V-270V	Upto 1.5 ton	3 Years Onsite
SMART EM 4160+	160V-285V	Upto 1.5 ton	3 Years Onsite
SMART EM 4150+	150V-280V	Upto 1.5 ton	3 Years Onsite
SMART EM 4130+	130V-300V	Upto 1.5 ton	3 Years Onsite
SMART EM 5170+	170V-270V	Upto 2 ton	3 Years Onsite
SMART EM 5150+	150v-290v	Upto 2 ton	3 Years Onsite
SMART EM 5130+	130V-300V	Upto 2 ton	3 Years Onsite

EML SERIES

MODELS AVAILABLE:



FOR MAIN POWER SUPPLY

MODELS	WORKING RANGE	APPLICATIONS	WARRANTY
EML 2090	100V-290V	General Purpose	2 Years Onsite
EML 3090	90V-300V	General Purpose	2 Years Onsite
EML 5090	90V-300V	General Purpose	2 Years Onsite
EML 8090	100V-290V	General Purpose	2 Years Onsite
EML 10090	100V-290V	General Purpose	2 Years Onsite

PEARL EM SERIES

MODELS AVAILABLE:



FOR AIR-CONDITIONER

MODELS	WORKING RANGE	APPLICATIONS	WARRANTY
PEARL EM 4170+	170V-270V	Upto 1.5 ton	3 Years Onsite
PEARL EM 4160+	160V-285V	Upto 1.5 ton	3 Years Onsite
PEARL EM 4150+	150V-280V	Upto 1.5 ton	3 Years Onsite
PEARL EM 4140+	140V-290V	Upto 1.5 ton	3 Years Onsite
PEARL EM 4130+	130V-300V	Upto 1.5 ton	3 Years Onsite
PEARL EM 4110	110V-300V	Upto 1.5 ton	3 Years Onsite
PEARL EM 4090	90V-300V	Upto 1.5 ton	3 Years Onsite
PEARL EM 5170+	170V-270V	Upto 2 ton	3 Years Onsite
PEARL EM 5150+	150V-290V	Upto 2 ton	3 Years Onsite
PEARL EM 5130+	130V-300V	Upto 2 ton	3 Years Onsite
PEARL EM 5090	90V-300V	Upto 2 ton	3 Years Onsite

3) INVERTER

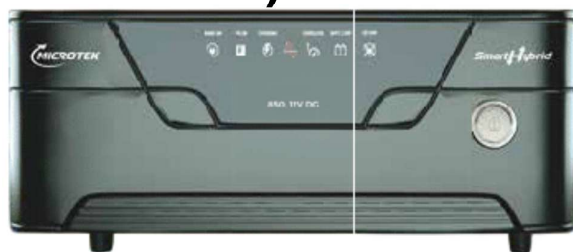
1)



2)



3)



4)



LUXE WIFI UPS

Input Voltage	Inv Mode: 80V~290V UPS Mode: 180V~265V
Output Voltage on Mains mode	Same as input
Output Voltage on Backup mode	230V $\pm$ 10% @ DC = 12V
Output frequency on Backup mode	50 Hz $\pm$ 0.5 Hz
Switching from Mains to UPS and from UPS to Mains	Automatic
Output waveform on Mains mode	Same as Input
Output waveform on Backup mode	Pure Sinewave
Battery Charging Current	10A/12A/15A/20A variety of current types can be selected
Battery Type Selection Options	TUB/SMF/FLA-LC/Lithium
Protections	Over Load / Short Circuit / Over Charge / DC High Voltage / Over Temp. / Backfeed
UPS Transfer Time	$\leq$ 15msec.
Browns Out Mains Voltage	80V $\pm$ 10V
Technology	Micro Computer Based Intelligent Control Design
Auto Reset Feature	Yes
Operating Temperature	0~45°

2)

ADVANCED DIGITAL MODELS		PURE SINEWAVE MODELS	
Input Voltage	Inv. Mode: 90V-300V UPS Mode: 180V-260V	Input Voltage	Inv. Mode: 90V-300V UPS Mode: 180V-260V
Output Voltage	Mains Mode: Same as Input UPS Mode: 200V ~ 230V $\pm$ 10%	Output Voltage	Mains Mode: Same as Input UPS Mode: 210V $\pm$ 10%
Output Frequency	UPS Mode: 50Hz $\pm$ 0.1Hz	Output Frequency	UPS Mode: 50Hz $\pm$ 0.1Hz
Switching	Automatic (from Mains to UPS & UPS to Mains)	Switching	Automatic (from Mains to UPS & UPS to Mains)
Output Waveform	Mains Mode: Same as Input UPS Mode: TPZi (Trape Zoidal Waveform)	Output Waveform	Mains Mode: Same as Input UPS Mode: PURE SINEWAVE
Battery Charging Current	Constant Charging approx. 10% of the rated Battery Current in AH	Battery Charging Current	Constant Charging approx. 10% of the rated Battery Current in AH
Charger	Constant Current, Constant Wattage	Charger	Power Factor Controlled Boost Technology
Efficiency	> 84%	Efficiency	> 80%
UPS Overload	110%	UPS Overload	110%
UPS Short Circuit	300%	UPS Short Circuit	300%
UPS Transfer Time	$\leq$ 15msec.	UPS Transfer Time	$\leq$ 15msec.
Browns Out Mains Voltage	100 $\pm$ 40V	Browns Out Mains Voltage	100 $\pm$ 40V
Technology	Micro Controller Based Design	Technology	Micro Controller Based Intelligent Control Design
Auto Reset Feature	Yes	Auto Reset Feature	Yes
Operating Temp.	0°C ~ 45°C	Operating Temp.	0°C ~ 45°C
Available Models	850, 12V DG / 1050, 12V DG / 1250, 12V DG 1850, 24V DG	Available Models	850, 12V SW / 1050, 12V SW / 1250, 12V SW

3)

SMART HYBRID TRUE SINEWAVE UPS

Product	875/12V SW	1075/12V SW	1275/12V SW	1875/24V SW
Input Voltage	Inv. Mode: 90V-300V UPS Mode: 180V-260V			
Output Voltage	Mains Mode: Same as Input / 210V $\pm$ 10%			
Output Frequency	UPS Mode: 50Hz $\pm$ 0.1Hz			
Switching	Automatic (from Mains to UPS & UPS to Mains)			
Output Waveform	Mains Mode: Same as Input / UPS Mode: TRUE SINEWAVE			
Battery Charging Current	Constant Charging approx. 10% of the rated Battery Current in AH			
Charger	Power Factor Controlled Boost Technology			
Efficiency	> 80%			
UPS Overload	110%			
UPS Short Circuit	300%			
UPS Transfer Time	$\leq$ 15msec.			
Browns Out Mains Vol.	100 $\pm$ 40V			
Technology	Micro Controller Based Intelligent Control Design			
Auto Reset Feature	Yes			
Operating Temp.	0°C ~ 45°C			

4)

ADVANCED DIGITAL MODELS

Input Voltage	Inv. Mode: 90V-300V UPS Mode: 180V-260V
Output Voltage	Mains Mode: Same as Input UPS Mode: 200V ~ 230V $\pm$ 10%
Output Frequency	UPS Mode: 50Hz $\pm$ 0.1Hz
Switching	Automatic (from Mains to UPS & UPS to Mains)
Output Waveform	Mains Mode: Same as Input UPS Mode: TPZi (Trape Zoidal Waveform)
Battery Charging	Constant Charging approx. 10% of the rated
Current	Battery Current in AH
Charger	Constant Current, Constant Wattage
Efficiency	> 84%
UPS Overload	110%
UPS Short Circuit	300%
UPS Transfer Time	$\leq$ 15msec.
Browns Out	
Mains Voltage	100 $\pm$ 40V
Technology	Micro Controller Based Design
Auto Reset	
Feature	Yes
Operating Temp.	0°C ~ 45°C
Available Models	700, 12V DG / 800, 12V DG / 900, 12V DG / 1000, 12V DG, 1100, 12V DG / 1200, 12V DG / 1700, 24V DG

ADVANCED DIGITAL MODELS

Input Voltage	Inv. Mode: 100V-300V UPS Mode: 180V-260V
Output Voltage	Mains Mode: Same as Input UPS Mode: 200V ~ 230V $\pm$ 10%
Output Frequency	UPS Mode: 50Hz $\pm$ 0.1Hz
Switching	Automatic (from Mains to UPS & UPS to Mains)
Output Waveform	Mains Mode: Same as Input UPS Mode: PURE SINEWAVE
Battery Charging	Constant Charging approx. 10% of the rated
Current	Battery Current in AH
Charger	Power Factor Controlled Boost Technology
Efficiency	> 80%
UPS Overload	110%
UPS Short Circuit	300%
UPS Transfer Time	$\leq$ 15msec.
Browns Out	
Mains Voltage	100 $\pm$ 40V
Technology	Micro Controller Based Design
Auto Reset	
Feature	Yes
Operating Temp.	0°C ~ 45°C
Available Models	700, 12V SW / 800, 12V SW / 900, 12V SW / 1000, 12V SW 1100, 12V SW / 1200, 12V SW / 1700, 24V SW

5)



6)



7)



5)

Product	ELITE 1500 LCD 12V SW	ELITE 1500 12V SW LED
Input Voltage	Inverter Mode: 100V - 300V UPS Mode: 180V - 260V	
Output Voltage	Mains Mode: Same as Input / UPS Mode: 210V $\pm$ 10%	
Output Frequency	UPS Mode: 50HZ $\pm$ 0.1HZ	
Switching	Automatic (from Mains to UPS and from UPS to Mains)	
Output Waveform	Mains Mode: Same as Input / UPS Mode: Pure Sinewave	
Batt. Charging Current	Constant Charging approx. 10% of the rated Battery Current in AH	
Charger	Power Factor Controlled Boost Technology	
Efficiency	> 80%	
UPS Overload	110%	
UPS Short Circuit	300%	
UPS Transfer Time	$\leq$ 15msec.	
Browns Out Mains Vol.	100 $\pm$ 40V	
Technology	Micro Computer Based intelligent Control Design	
Auto Reset Feature	Yes	
Operating Temp.	0°C ~ 45°C	

6)

ADVANCED DIGITAL MODELS		PURE SINEWAVE MODELS	
Input Voltage	Inv. Mode: 90V-300V UPS Mode: 180V-260V	Input Voltage	Inv. Mode: 90V-300V UPS Mode: 180V-260V
Output Voltage	Mains Mode: Same as Input UPS Mode: 200V ~ 230V $\pm$ 10%	Output Voltage	Mains Mode: Same as Input UPS Mode: 210V $\pm$ 10%
Output Frequency	UPS Mode: 50Hz $\pm$ 0.1Hz	Output Frequency	UPS Mode: 50Hz $\pm$ 0.1Hz
Switching	Automatic (from Mains to UPS & UPS to Mains)	Switching	Automatic (from Mains to UPS & UPS to Mains)
Output Waveform	Mains Mode: Same as Input UPS Mode: TPZi (Trape Zoidal Waveform)	Output Waveform	Mains Mode: Same as Input UPS Mode: PURE SINEWAVE
Battery Charging Current	Constant Charging approx. 10% of the rated Battery Current in AH	Battery Charging Current	Constant Charging approx. 10% of the rated Battery Current in AH
Charger	Constant Current, Constant Wattage	Charger	Power Factor Controlled Boost Technology
Efficiency	> 84%	Efficiency	> 80%
UPS Overload	110%	UPS Overload	110%
UPS Short Circuit	300%	UPS Short Circuit	300%
UPS Transfer Time	$\leq$ 15msec.	UPS Transfer Time	$\leq$ 15msec.
Browns Out Mains Voltage	100 $\pm$ 40V	Browns Out Mains Voltage	100 $\pm$ 40V
Technology	Micro Controller Based Design	Technology	Micro Controller Based Intelligent Control Design
Auto Reset Feature	Yes	Auto Reset Feature	Yes
Operating Temp.	0°C ~ 45°C	Operating Temp.	0°C ~ 45°C
Available Models	1550, 12V DG / 1750, 12V DG / 2350, 24V DG	Available Models	1550, 12V SW / 1750, 12V SW / 2350, 24V SW

7)

Input Voltage	Inv. Mode: 90V-300V UPS Mode: 180V-260V
Output Voltage	Mains Mode: Same as Input UPS Mode: 200V ~ 230V ± 10%
Output Frequency	UPS Mode: 50Hz ± 0.1Hz
Switching	Automatic (from Mains to UPS & UPS to Mains)
Output Waveform	Mains Mode: Same as Input UPS Mode: TPZi (Trape Zoidal Waveform)
Battery Charging Current	Constant Charging approx. 10% of the rated Battery Current in AH
Charger	Constant Current, Constant Wattage
Efficiency	> 84%
UPS Overload	110%
UPS Short Circuit	300%
UPS Transfer Time	≤ 15msec.
Browns Out Mains Voltage	100 ± 40V
Technology	Micro Controller Based Design
Auto Reset Feature	Yes
Operating Temp.	0°C ~ 45°C
Available Models	825, 12V DG / 1025, 12V DG / 1225, 12V DG 1825, 24V DG

Input Voltage	Inv. Mode: 100V-300V UPS Mode: 180V-260V
Output Voltage	Mains Mode: Same as Input UPS Mode: 210V ± 10%
Output Frequency	UPS Mode: 50Hz ± 0.1Hz
Switching	Automatic (from Mains to UPS & UPS to Mains)
Output Waveform	Mains Mode: Same as Input UPS Mode: PURE SINEWAVE
Battery Charging Current	Constant Charging approx. 10% of the rated Battery Current in AH
Charger	Power Factor Controller Boost Technology
Efficiency	> 80%
UPS Overload	110%
UPS Short Circuit	300%
UPS Transfer Time	≤ 15msec.
Browns Out Mains Voltage	100 ± 40V
Technology	Micro Controller Based Design Intelligent Control design
Auto Reset Feature	Yes
Operating Temp.	0°C ~ 45°C
Available Models	825, 12V SW / 1025, 12V SW / 1225, 12V SW 1825, 24V SW



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4) BATTERY



Series	Microtek Model Name	Capacity (Ah at C20)	Total Warranty	Flat Warranty	Prorata Warranty	Container Type
Dura Smart	M1502424TT NEW	150	48	24	24	TT
	M1502424JT NEW	150	48	24	24	JT
Dura Long	M1603624TT NEW	160	60	36	24	TT
	M1803624TT NEW	180	60	36	24	TT
	M2003624TT NEW	200	60	36	24	TT
	M2203624TT NEW	220	60	36	24	TT
	M2503624TT NEW	250	60	36	24	TT



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