



AdPoS

Advanced Power Systems

Micro-S L Pro/ Micro-S L-RM Pro

(1100 VA - 5000 VA)




Features

- for longer autonomy-times
- pure sine wave
- without batteries, additional battery cabinet optional
- Smart backup time estimation
- Adjustable voltage sensitivity, voltage-transfer points & charging voltage
- Generator compatible
- Automatic restart of load after UPS shutdown
- Smart AVR function (Two buck / boost modes)
- Cold-start capable
- Audible alarm
- Hot-swappable batteries for rack models
- Smart battery management
- Network manageable (SNMP optional)
- Full function of LCD display (LED display optional)
- Intelligent double stages of charging control
- with 10A-charger for long backup time
- wet battery compatible
- thermal control cooling fan
- Power Management Software inclusive

Applications:

- Networkserver
- Small computersystems
- Data centers
- Telecommunicationssystems
- Industrial applications
- Safty and protection system


...principle safety

Micro-S L Pro/ Micro-S L-RM Pro

Model (Tower-Version)		Micro-S 1100 L-Pro	Micro-S 2200 L-Pro	Micro-S 3000 L-Pro	-
Capacity		1100 VA/ 660 W	2200 VA/ 1350 W	3000 VA/1800 W	-
Model (19" RM-Version)		Micro-S 2000 L-RM-Pro	Micro-S 2700 L-RM-Pro	Micro-S 4000 L-RM-Pro	Micro-S 5000 L-RM-Pro
Capacity		2000 VA/ 1250 W	2700 VA/ 1700 W	4000 VA/ 2500 W	5000 VA/ 3200 W
Output					
Voltage		100/110/115/120 V or 200/220/230/240 V selectable			
Voltage waveform		sine wave			
Crest factor		3 : 1			
Frequency (Synchronized to Mains)		auto select for 50/60 Hz; 47Hz ~ 55Hz for 50Hz nominal; 56Hz ~ 65Hz for 60Hz nominal			
Regulation (nominal)		±5% typical of nominal voltage (optional at ±8% AVR for wide I/P up to ±35%)			
Regulation (battery mode)		±3% of selected output voltage (adjustable by using the remote set-up software)			
Transfer time		blackout 3ms typical; brownout 1ms typical; battery mode to normal mode: 1ms typical			
Over current protection		over load alarm level 100% ~ 120%; over load shutdown level 120% ~ 190% (adjustable by using the remote set-up software)			
Input					
Nominal Voltage		100/110/115/120 V or 200/220/230/240 V selectable			
Frequency		47Hz ~ 65Hz, 50/60Hz auto-sensing			
Efficiency (normal mode)		97 %			
Noise filtering		full time EMI/RFI filtering			
Over current protection 230V T		by AC fuse		by re-settable over current protector	
Over current protection 115V T		by AC fuse		by re-settable over current protector	
Over current protection 19" RM		By re-settable over current protector			
Voltage range		-20% ~ +24% for selected nominal voltage; -29% ~ +33% adjustable by using the remote set-up software			
AVR range (2 Bucks, 2 Boosts)		enhanced buck: +15% of selected nominal voltage; buck mode: +5% of selected nominal voltage boost mode: -5% of selected nominal voltage; enhanced boost: -12.5% of selected nominal voltage			
Surge protection 230V models		220 Joules/ 440 Joules 19"RM	440 Joules	660 Joules	
Surge protection 115V models		216 Joules/ 324 Joules 19"RM	324 Joules		
Battery					
Type		Lead-Acid 25Ah ~ 250Ah			
Voltage in Vdc		24Vdc (48Vdc opt.)/ 48 19"RM	48Vdc	72Vdc	
Typical backup time		No Limit			
Charging method		smart pulse charging with two charging modes; quick charging when battery is not fully charged, trickle charging when battery is 90% fully charged			
Average charging current		11A at normal line and normal temperature			
Average charging voltage for each battery		quick charging mode: 14V maximum trickle charging mode: 13.2V ~ 13.9V adjustable with the remote set-up software			
Protection		over current protection (SCR control); over charging voltage protection (SCR control); thermal protection (CPU control); When temperature inside UPS is over 45°C, charger will stop charging for 2.5 minutes followed by an 1.5 minutes charging. The cycle will be repeated until the temperature is lower than 44° C.			
Monitoring		smart monitoring&warning for failed battery or open-circuit battery. Auto-detection each time when power on or every 6 days			
External battery cabinet for tower					
for up to 6 x 12V-12Ah		Dimension of the external battery cabinet: DxHxW in mm: 510 x 200 x 180			-
for up to 8 x 12V-12Ah		Dimension of the external battery cabinet: DxHxW in mm: 450x 200 x 180			-
Communications & management					
Standard interface port		Tower: RS232, DB9, USB / 19" RM: RS232			
Optional interface port		Tower: RJ45 (Surge protection), SNMP (external type) / 19" RM: DB9, SNMP			
Software		UPSilon 2000 compatible			
Control panel Tower		LCD or LED selectable			-
Control panel 19" RM		LCD			
Audible alarm		alarm on battery: low battery & battery over voltage, alarm on abnormal operation: Over load, Short-circuit & over heat support for LCD display			
EBT(estimation of backuptime)		1% to 14% full load (adjustable by using the remote set-up software) The default setting is OFF.			
Green mode function (auto-shutdown during blackout)		Auto on/off, controlled by temperature & operation mode			
Environmental and safety					
Operation temperature		up to 1500 meters: 0°C to 40°C (32°F to 104°F)			
Transit/storage temperature		-15°C to 55°C (5°F to 131°F)			
Relative humidity		5 - 95% non condensing			
Operating altitude		0 ~ 3000 meters			
Audible noise		≤ 50 dBA at 1M from surface of unit			
Safety markings		230V-models: CE, 115V-models: BSMI			
EMC		Class B, EN50091-2, FCC part15, IEC1000-2-2			
Isolation		3KVac/1.5KVac for 1 minute between battery and AC side			
Quality control system		ISO 9001			
Physical (Dimensions in cm)					
(DxHxW) unit/shipping Tower		18x20x45 / 30x33x54			-
(DxHxW) unit/shipping 19" RM		45x3HE / 59x33x59			48x4U/60x40x64
Weight (Net/Gross kg) Tower		15/16 kg	19/20 kg	23/24 kg	-
Weight (Net/Gross kg) 19" RM		26/30 kg		34/38 kg	44/48 kg
Packing		export carton for each unit, 16 ~ 30 units per pallet			