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EssentialPower™, the single-phase UPS

EssentialPower™ is the online, true double-conversion, single-phase UPS (Uninterruptible Power Supply).

From 1 to 20kVA, EssentialPower™ provides the most flexible and reliable solution ideal for small network devices, servers, point-of-sale, workstation clusters and light-industrial installations. EssentialPower™ satisfies any entry-level mission critical application demanding high availability and flexibility.

Flexibility for any application

From 2U to 5U, mono-mono or tri-mono, EssentialPower can be used as standalone tower or rack-mounted UPS on any mission critical application.

EssentialPower offers built-in internal batteries from 1 to 6 kVA, and the possibility to connect matching battery cabinets for autonomies of up to 4 hours

Benefits

Standalone tower or 19" rackmount configurations

Connectivity: USB, RS-232, potential-free contacts

EPO contact inputs for remote shutdown

Cold start

Parallel operation from 6 kVA to 20 kVA

Frequency converter operation (50 Hz or 60 Hz)

Connect up-to 4 battery modules to achieve hours of autonomy times



Connectivity

With a variety of options, like, communication cards, expansion relays, SNMP and ambient monitoring applications, **Essential Power™** can be easily integrated into any environment and building management system.

Reliability

- True-online double conversion, pure sinewave output
- Reliable digital power conversion architecture
- Wide range input window from 110 to 300 Vac
- Extended battery life I U (DIN 41773)
- Patended backup runtime estimated on LCD

Ease of Service

- Frontal access battery replacement
- Clean and clear user-friendly display
- Records event log and alarms up to 500
- Personalization & intelligend self-diagnostic
- Easy firmware Flash upgrade
 - Manual maintenance bypass switch (optional)

Battery autonomy

EssentialPower™ 11RT

UPS Type	1kVA UPS-EP001-11-l03-2U	2kVA UPS-EP002-11-l06-2U UPS-EP002-11-l06-3US	3kVA UPS-EP003-11-l06-2U UPS-EP003-11-l06-4US	6kVA UPS-EP006-11-E-2U UPS-EP006-11-I20-4U	10kVA UPS-EP010-11-E-3U
Battery Cabinet	CAB-EPBAT06-I06-2U	CAB-EPBAT12-I12-2U	CAB-EPBAT12-I12-2U	CAB-EPBAT20-I20-3U	CAB-EPBAT20-I20-3U
Battery Type	7Ah	7Ah	9Ah	7Ah	9Ah
UPS	9	10	7	9	6
UPS + 1 EPBATxx	22	23	18	24	17
UPS + 2 EPBATxx	39	39	31	42	21
UPS + 3 EPBATxx	55	56	44	61	29
UPS + 4 EPBATxx	70	73	58	81	44

EssentialPower™ 31RT

UPS Type	10kVA UPS-EP010-31-E-3U	15kVA UPS-EP015-31-E-5U	20kVA UPS-EP020-31-E-5U
Battery Cabinet	CAB-EPBAT20-I00-3U	CAB-EPBAT20-I00-3UH	CAB-EPBAT20-I00-3UH
Battery Type	9Ah	9Ah	9Ah
UPS	N.A.	N.A.	N.A.
UPS + 1 EPBATxx	7	4	<3
UPS + 2 EPBATxx	19	11	7
UPS + 3 EPBATxx	31	18	13
UPS + 4 EPBATxx	45	27	19





^{*}Autonomies @70% load.

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The single-phase ATS-16-32A

The ATS (Automatic Transfer Switch) provides redundant power to single input devices by managing two separate, independent power sources.

Reliability

High automatic transfer speed between two sources (8 – 12 ms).

Takes up minimal space: 1U for 16 A and 2U for 32 A.

Includes USB, EPO, RS232 for dry contacts and slots for optional communication cards.





Technical Datasheet single-phase ATS

	Model	16A ATS-UP016-U1	32A ATS-UP032-U2		
General data	Rated Current	16 A	32 A		
Input	Rated voltage	200/208/220/230/240 Vac (±5%/10%/15%/20%)			
	Frequency	50/60 Hz (±5%/10%/15%/20%)			
=	Input sockets	2 x IEC-C20 2 x 30 A terminal blocks			
	Rated voltage	200/208/220/230/240 Vac			
Output	Maximum output current	16 A 32 A			
	Transfer time	8–12 ms			
	Output sockets	8 x IEC-C13 1 x IEC-C19	12 x IEC C13 2 x IEC C19 1 x 32 A terminal blocks		
	Protection	Downstream short circuit			
Physical	Dimensions (WxDxH) mm	440x275x44	440x275x88		
Ph	Weight (kg)	4	6		
Environmental parameters	Operation Temperature	-5°C to + 40°C			
Enviror	Operation Humidity	0~90%RH (without condensing)			
Communications	Built-in communication ports RS232, USB, EPO, relay card with dry contacts (5 out)				
nunic	User interface	LED (source A and/or B, fault status) LCD (parameters: alarms, faults)			
Comr	Optional accessories	RS485, SNMP/Web cards			
Standards and certifications	Standards	IEC EN 62368-1, IEC EN 62310-2	62310-2		
Standa certifi	Marking	CE			



Technical Datasheet

EssentialPower™ 11RT

	Model	1kVA UPS-EP001-11-l03-2U	2kVA UPS-EP002-11-l06-2U UPS-EP002-11-l06-3US	3kVA UPS-EP003-11-l06-2U UPS-EP003-11-l06-4US	6kVA UPS-EP006-11-E-2U UPS-EP006-11-l20-4U	10kVA UPS-EP010-11-E-3U
	Output rated power	1000VA /900W	2000VA /1800W	3000VA /2700W	6000VA /6000W	10000VA /10000W
data	Output power factor	0,9	0,9	0,9	1	1
eral	Topology	Online double conversion				
General data	Internal Batteries	YES	YES	YES	2U: N.A.; 4U: YES	N.A.
	Parallel Configuration	N.A.	N.A.	N.A.	Up to 4 units	Up to 4 units
	Voltage range*	110~300 Vac (Single+G)			110~280 Vac (Single+G)	
¥	Frequency range	44-66Hz (auto sensing) 45-70Hz (auto sensing)				
Input	Input power factor	≥ 0.99 @ 100% linear load				
	Input Current Distorsion	< 7% (full load)	< 7% (full load)	< 7% (full load)	< 5% (full load)	< 5% (full load)
	Output voltage	220/230/240 Vac (Single		, , ,	200/208/220/230/240 Va	·
		<2%@100% Linear Load:				
	Output voltage distortion	<3%@100% Linear Load; <6% @100% Non-Linear Load <p>47% @100% Non-Linear Load</p>				
	Output voltage regulation	±1%				
Ħ	Frequency range	±1Hz or ±3Hz (selectable)				
Output	Crest factor	3:1				
0	Output waveform	Pure sine wave				
	Output sockets	3 x IEC C13	6 x IEC C13	6 x IEC C13	Terminal blocks	Terminal blocks
	Overload Capacity Inverter	 105%continuous 106-120% for 30 seconds transfer to bypass. 121-150% for 10 seconds transfer to bypass. 125-150% for 30 seconds transfer to bypass. 				
Efficiency	Line Mode	Up to 92%	Up to 92%	Up to 92%	93%	93%
Effici	High Efficiency Mode	≥97% Up to 98%				
	Туре	12V VRLA, AGM (mainten	ance-free lead acid battery	/)		
Battery	Battery Configuration	1x3x7Ah	1x6x7Ah	1x6x9Ah	E: External, 16/18/20 (std) 12-14 (opt) I20: 20x5Ah Internal	E: External, 16/18/20
	Charging Current	2.1 A	1.5 A	1.5 A	2 A	2 A
	Recharge time (to 90%)	4 hours				
	Multi-Mode	Normal/ ECO/ CVCF				
S	Audible or Visual	Line failure/ Battery low/	Transfer to Bypass/ System	m Fault		
Functions	Full protection	Overload, Over temperature, Short circuit, Discharge, Overcharge				
표	DC start	Yes (standard)				
	Programmable outlet	Yes (standard)	Yes (standard)	Yes (standard)	N.A.	N.A.
Physical	Dimensions (WxHxD,mm)	2U: 440x88x405	2U: 440x88x600 3US: 440x132x432	2U: 440x88x600 4US: 440x176x432	2U: 440x88x685 4U: 440x176x685	3U: 440x132x685
Ą.	Net Weight (kgs/lbs)	11.7/25.8	21.8/48.1	24.6/54.2	E: 18.5/40.7 I20: 60/132.3 (5Ahx20)	21.5/47.4
a	Operation Temperature**	0~40°C / 32~104°F				
nent	Operation Humidity	20~95%RH (without condensing)				
ronr	Altitude	1000m/3280ft without derating				
Environmental	Noise Level	50dBS @ 1-meter front	ŭ.		≤55dBA @ 1 meter	≤60dBA @ 1 meter
ا <u>د</u>	THOISE ECYCI					
tion	Standard	RS-232, USB, EPO, additional Slot for optional cards				
Communications	Option	RS485 (Modbus), Dry Contact Relay, SNMP/WEB Card				
Com	User Interface	LEDs + LCD: Input: Voltage/Frequency; Output: Voltage/Current/Frequency/Load %; Battery: Voltage/Autonomy/Temperature				
and Ins	Safety	IEC / EN62040-1 IEC / EN62040-1, UL1778				
Standards and certifications	EMC	IEC / EN62040-2 (C2)			EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A	
nda	Performance	IEC / EN62040-3				
Sta	Manufacturing	ISO 9001:2015, ISO 1400	1:2015 / CE, UL, cUL, FCC			
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^{*} Depending on the load percentage ** To be verified accordingly to the battery parameters

EssentialPower™ 31RT

SS	entialPower™	31RT					
	10kVA UPS-EP010-31-E-3U	15kVA UPS-EP015-31-E-5U	20kVA UPS-EP020-31-E-5U				
General data	10000VA /9000W	15000VA /13500W	20000VA /18000W				
	0,9						
ום ו יי	Online double conversion						
	NO						
	Up to 4 units						
	277 - 485 Vac (3Ph + N +PE)						
Input	45-65Hz (auto sensing)	45-65Hz (auto sensing)					
-	≥ 0.95 @ at linear load						
	<6% at linear load						
	220/230/240 Vac (Single + G) 200/208/220/230/240 Vac (Single + G)						
	<3%@100% Linear Load; <5% @100% Non-Linear Load						
	±1%						
	±1Hz or ±3Hz (selectable)						
datha	3:1						
5	Pure sine wave						
	Terminal blocks						
	<105%continuous						
	105-120% for 200 to 30 seconds transfer to bypass 120-150% for 30 seconds to 0.1 seconds						
-III CIGII CY	Up to 91%						
	Up to 95%						
	12V VRLA, AGM (maintenance-free lead acid battery)						
>	E: External: 20						
Dallery	E. External. 20						
נ	2 A	4.5 A	4.5 A				
	External Battery Depender	nt					
	Normal/ ECO/ CVCF						
2	Line failure/ Battery low/ T	ransfer to Bypass/ System Fa	ult				
ומוכווסווז	Overload, Over temperature, Short circuit, Discharge, Overcharge						
ב		Yes (standard)					
	N.A.						
<u> </u>	3U: 440x132x680	5U: 440x220x720	5U: 440x220x720				
riiysicai	28 /61.75	36 / 79.4	36 / 79.4				
	0~40°C / 32~104°F						
Environmentat	20~95%RH (without condensing)						
	1000m/3280ft without derating						
	≤50dBA @ 1 meter	≤60 dBA @ 1 meter					
	RS-232, EPO and additional Slot for optional cards						
Communications	USB, RS485 (Modbus), Dry Contact Relay, SNMP/WEB Card						
3	LEDs + LCD: Input: Voltage/Frequency; Output: Voltage/Current/Frequency/Load %; Battery: Voltage/Autonomy/TemperatureVoltage/Autonomy/Temperature						
ons	IEC / EN62040-1						
Icati	IEC / EN62040-2 (C2)						
certifications	IEC / EN62040-3						
•	ISO 9001:2015, ISO 14001:	2015 / CE, UL, cUL, FCC					



2U 1-6 kVA



3U 10kVA



4U 6kVA with Batteries



5U 15,20kVA

Standa certific





