Tb Plus



MANUAL UPS



www.tbplusenergy.com

Tb Plus

LEGAL GUARANTEES

In accordance with Law 1480 of 2011 Consumer Statute and Decree 735 of 2013 Legal Guarantee:

- To request a guarantee, the customer is obliged to report the damage to the product, make it available to the company at the guarantee service point at AV CL 80 69-70 Unit 1C, and indicate the invoice number to determine your purchase date.
- The delivery of the repaired product will be delivered to the customer at the warranty service point, unless the customer requests to send it to a different destination, in which case the customer must assume the cost of freight.
- In any case, when a product repair guarantee is denied or approved, the respective written report must be issued supporting the evidence that justifies the decision.
- In no case will Tb Plus Energy proceed with the replacement of the product given under warranty since, if the repair does not proceed, a credit note will be issued which covers the acquisition of another new product or service or the return of the money paid.
- If the failure repeats once the product has been repaired, only the credit note applies which covers the acquisition of another new product or service or the return of the money paid.
- When the customer opts for a refund of the money, it will be for the amount of the sale price. For this purpose, they must send a communication signed by the legal representative, which indicates the bank details to make the return, the which will be effective within fifteen (15) business days after receipt of the return request.
- The repair of the product will be carried out within 30 business days following the claim, which is carried out by filling out the GP-F-018 Warranty Form, which is completed in the PQRF Guarantees tab on the WEB page www. tbplusenergy.com or at the following link:

https://forms.office.com/Pages/ResponsePage.aspx?id=K987JK0Nuke_1n30RF9URwiKWAfZovh DrWEVYGmhK95UOVZYUFBWMUpaQVZBM0hIS0RKUjdLSkdIWS4u:

- Once the guarantee form has been completed, the client has 15 days to make it available at the guarantee service point.
- The product manuals in which proper use, installation instructions and periods covered by the warranty are reported are found in the PQRF Product Manuals tab on the website www.tbplusenergy.com.

TECHNICAL SPECIFICATIONS

Product description

Uninterruptible Power Systems (UPS), also known as UPS (Uninterruptable Power Supply) are responsible for optimizing the use of electrical energy to various devices during a power outage.

Main properties Monophase UPS

- Online double conversion.
- Wide input voltage range (60 150 Vac).
- Input power factor 0.99 (with PFC).
- Output power factor 1.0.
- The charging current of the standard model can be charged 1A.
- 50Hz/60Hz frequency converter mode.
- Emergency power off (EPO) function.
- Operation in ECO mode for energy saving (ECO).
- Compatible generator.
- Multiple SNMP + USB + RS232 communications.
- Intelligent battery charging design to optimize battery performance.
- Selectable output voltage: 100*, 110*, 115, 120, 125 vac.



TECHNICAL VARIABLES

Main properties Biphasic UPS

- \bigcirc N + \checkmark parallel redundancy.
- Online double conversion with DSP control.
- Input current harmonic: <3%.</p>
- Optimization battery group, battery quantity: 16/18/20 pieces optional.
- High output power factor at PF0.9.
- Wide input voltage range: 72 159 vac.
- Wide input frequency range $50 \pm 10\%$ or $60 \pm 10\%$ Hz.
- Support generator input.
- Supports economical operation mode (ECO).
- Self-test at startup.
- Options: SNMP card / dry contact card / parallel card.
- Fresh start.

TECHNICAL VARIABLES (MONOPHASE)

		UDC9601S One		UDC9602S One	UDC9603S One		
Capacity (VA/Watts) Phase		1000VA / 1000W		2000VA / 2000W	3000VA / 3000W		
			Sin	gle phase with grounde with ground			
NPUT							
Jominal Voltag	5			120Vac			
Operating	Low line transfer	90Vac @100%load	60Vac @60%~0%load	60 -90VAC@Linear adjustment	(Ambient Temp. <35°C)		
voltage range	Low line comback	100Vac @100%load	100Vac@100%load 70Vac@60%~0%load 70 -100VAC@Linear adjustment		(Ambient Temp. <35℃)		
	Trigittine transier	150Vac ±5%					
High line comback		140Vac ± 5% 60-150Vac @ 60% load 90~150Vac @ 100% load					
put voltage r Dperating freq			60~150Va	40~70Hz			
ower Factor	laency range			.99 @ nominal voltage(100% load)			
HDI				@100%Linear load,@ nominal voltage)			
Generator inpl	ut		~ 0.00 (0	Support			
lug Type	ui	NEMA 5-15P		NEMA 5-20P	NEMA 5-30P		
		NEWA 3 13F					
utput Voltage	9			100*/ 110*/115/120/125 Vac			
ower Factor				1 1			
oltage Regula	ation			± 1%			
Outlet Type		NEMA 5-15R 4pcs		NEMA5-20R 4pcs	NEMA5-20R 4pcs +1PCS 5-L30R		
ullet Type	Line mode	NEIWA 3 TOT 4pcs		47~53Hz or 57~63Hz	NEWAS-ZUR 4pts + IPCS 5-LSUR		
requency	Bat. mode			(50/60±0.1)Hz			
rest Factor	Ball mode			3:1			
				≤3% THD (Linear load)			
armonic Disto	ortion (THDv)	≤3% THD (Linearioad) ≤5% THD (Non-linearioad)					
Vaveform		≤5% THD (Non-Inear load) Pure Sinewave					
	AC mode <->Batt. Mode	Zero					
ransfer Time	Inverter <-> Bypass			4ms(Typical)			
FFICIENCY							
C Mode		90.8%		89.21%	92.31%		
attery Mode		85.773%		86.78%	87.2%		
CO Mode		95.26%		95.65%	98.41%		
RLAB BATT	TERY			00.0010	00.1110		
attery Type		12V7AH		12V 7AH	12V9AH		
lumbers		12 977 91		4	6		
				Full load according to			
Backup time		actual measurement (only refers to standard UPS) , As for long backup					
Typical recharging time(Standard modle)		UPS, the backup time is determined by the capacity of battery.					
		8 hours recover to 90% capacity					
Charging voltage		41Vdc±1%		82.1Vdc±1%	82.1Vdc±1%		
harging curre	-			1A			
YSTEM FEA							
			105%~110	%: UPS after 10 minutes transfer to bypa	ISS		
		110%~130%: UPS after 1 minute transfer to bypass					
	Ambient temp.<35°C		130%~150%; UPS after 5 seconds transfer to bypass				
Line mode							
				6:UPS immediately transfer to bypass	s		
ne mode			>150%				
ne mode	35°C <ambient< td=""><td></td><td>>150% 105%~11</td><td>6:UPS immediately transfer to bypass</td><td>s</td></ambient<>		>150% 105%~11	6:UPS immediately transfer to bypass	s		
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iattery mode short circuit Overheat iattery low PO (optional) uudible & Visu communicatio PHYSICAL imension W >> let Weight (kg Weight (kg NVIRONME Operating temp itorage tempe fumidity range	Temp.<40°C Ambient temp.<40°C Ambient temp.<40°C an interface At × D (mm) a) ENT Eperature arature a		>150% 105%-11 110%~130% >130% 105% 110%-1 >1: Line mode: Switch to Line fail	&:UPS immediately transfer to bypass 0%: UPS after 1 minute transfer to bypas :: UPS immediately transfer to bypass :: UPS after 5 seconds shut down :: UPS immediately shut down : Hold whole system : bypass; Backup mode: Shut down UPS immediately ure, Battery low, Over load, System fault USB, RS232, MINI SNMP SLOT : 191*337*460 : 24.3 : 0~40°C : -25°C ~ 55°C : 0% RH @ 0~40°C (Non-condensing) < <1500m	s ass immediately 191*337*460		

* Derate to 80% of capacity when the output voltage is adjusted to 100/110VAC

TECHNICAL VARIABLES (BIPHASIC)

Tb Plus

Capacity		MEMO S/H 6KVA	MEMO S/H 10KVA			
Capacity		6KVA / 5.4KW	10KVA / 9KW			
INPUT						
Phase		Single Pha	se			
Rated Voltage		208Vac				
Voltage Range		176Vac-300Vac at 100% load, 110Vac-300Vac at 50% load				
Frequency Ra	ange	50 ± 10% or 60 ±	= 10% Hz			
Power Factor		≥0.99				
Current THDi		≤5%(100% line	ear load)			
Bypass Voltage Range		208 Vac(Phase Voltage)				
		Upper limit:+10%、+15%、+20%、+25%(default:+15%)				
		Lower limit: -10%、-20%、-30%、-40%(default:-20%) Frequency range: ±10%				
Generator Inp	out Support					
Output	at support					
Phase		Bi-Phases				
Rated Voltage		Bi-Phases 208/220/230/240Vac;104*2/110*2/115*2/120*2Vac; 50/60Hz				
Power Factor		0.9				
		± 1%				
Voltage Regulation		$\pm 1\%$ $\pm 1\%$, $\pm 2\%$, $\pm 4\%$, $\pm 5\%$, $\pm 10\%$ of the rated frequency(optional)				
requency	Utility Mode					
Proof Easter	Battery Mode	(50/60±0,2%)Hz				
Crest Factor		3:1(max)				
ГНD		≤2% with linear load				
		≤5% with non linear load				
Waveform		Pure Sine Wave				
Efficiency	1					
Efficiency	Utility Mode	≥92.5%	0			
,	Battery Mode	≥80%				
Battery						
/oltage		Long time unit Optional Voltage: ±96V / ±108V / ±120Vdc				
		16 / 18 / 20pcs 12	2V battery			
Charge Curre	nt(A)	Long time unit Maximum current 6A(charge current ca	n be set according to battery capacity installed)			
Transfer Tim	ie					
		uninterruptible transfer: 0ms				
		interrupted transfer: <15ms (50	Hz), < 13.33ms (60Hz)[1]			
Protection						
	ACMada	Load \leq 110%: last 60min , \leq 125%: last10min ,	100%≤Load≤127%: last 1min;load			
	AC Mode	≤150%: last 1min, ≥150% shut down UPS immediately	≥127%:shut down UPSimmediately			
Overload		Load ≤ 110%: last 10min , ≤ 125%: last1min, ≤150%:				
Overload						
Overload	Bat. Mode		100% ≤Load : shut down UPS immediately			
Over l oad		last 5S, ≥ 150% shut down UPS immediately	· · · · · · · · · · · · · · · · · · ·			
	Bat. Mode Bypass Mode	last 5S, ≥ 150% shut down UPS immediately Breaker 100A	Breaker 125A			
Short Circuit		last 5S, ≥ 150% shut down UPS immediately Breaker 100A Hold Whole S	Breaker 125A			
Short Circuit Overheat		last 5S, ≥ 150% shut down UPS immediately Breaker 100A Hold Whole S Line Mode: Switch to Bypass; Backup	Breaker 125A ystem Mode:Shut down UPS immediately			
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WARRANTY CONDITIONS

Tb Plus Energy warrants that each product is free from defects in materials and workmanship manufacturing, and offers a guarantee for a period of **12 months** from the acquisition of the product.

RECOMMENDATIONS

- Store in a safe place. Free of light, water and dust.
- Install under certified professional recommendation.
- Do not expose to nearby heat sources.
- Do not connect equipment with a power greater than that with which the power supply has been sized battery or system.
- Once a year check the battery charge level.
- Do not leave them within the reach of children.

(\mathbf{R}) The Plus

(+57) 316 6159244

Av. Calle 80 No 69-70 Bodega 35 Bogotá, D.C. Colombia.



www.tbplusenergy.com

(+1) 814 3008183

📤 759 SW Federal HWY Suite 304 Stuart - Florida - US

(+86) 13818126326

China - Shanghai: Cod. Postal 201308 Ed 1y2° 333; Haiyang 1st Road