



7 = 990 G4 | Tadasan 10 kVA ~ 100kVA (3:3) PF 1.0

- 10 kVA ~ 60 kVA:
- High frequency on-line double conversion technology
- Advanced dual-core US control technology and 3-level technology
- Output power factor 1.0
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 96%. energy saving rate is doubled
- Working efficiency up to 99% in ECO mode
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage ranae. 50 | 60 Hz auto-sensing frequency
- 50 HZ 60 Hz frequency conversion mode
- Compact internal avout. small footorint
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Effective hardware and software protection, robust self-diagnosis function, abundant event logs for future check
- Linear downgrading in low voltage input reducing battery discharging times
- Flexible battery configuration setting, selectable battery numbers: $30 \sim 44 \ pcs$
- Digitally controlled charger (Max. 48 A)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring output uninterrupted
- Settable delayed start time when mains power is restored
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful backaround software for parameters contiguration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Options and accessories: RS232. USB. RS485. R45. parallel. dry contacts.
 EPO and battery temperature compensation interlaces supplied; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMD detector and SMS alarms

- 80 kVA ~ 100 kVA:
- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 96%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 / 60 Hz auto-sensing frequency
- $50 / 60 \ \mathrm{Hz}$ frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32- 40 pcs
- Digitally controlled charger
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event logs for future check
- Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- Optional SNMP card, WI-FI card, GPRS card, SMS alarms





MODEL	TEC9010	TEC9020	TEC9030	TEC9040	TEC9060
Power rating	10 KVA/10KW	20 KVA/20KW	30 KVA/30KW	40 KVA/40KW	60 KVA/60KW
INPUT					
Rated voltage	380 / 400 / 415 Vac (3Φ + N + PE)				
Voltage range	304-478Vac, full load 228V-304Vac, load decrease linearly according to the min phase voltage				
Rated frequency	304 - 485 Vac (no downgrading), 138 - 304 Vac (linear downgrading between 40% ~ 100% load)			1 0	
Frequency range	50 / 60 Hz			,	
Power factor	40 ~ 70 Hz				
Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%,			5% -20% -30% -40	
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz			2070, 2070, 10	
Input current THDi	<3% (linear load)				
Bypass overload	25%: long term on	eration: 125%~130%: 10		n;150%-400%: 1s; >400	% less than 200ms
OUTPUT	2370. long term op	12370 13070. 1	Jimi, 15070 15070. 1im	1,15070 10070. 15,1 100	, ress than 200ms
		280 / 400	0 / 415 Vac (3Φ + N +	DE	
Rated voltage				re)	
Voltage precision	9 1		±1% (linear load)	10.10/ 1.1.	
Frequency	Synch	ronized with utility in		z ‡0.1% in battery mod	le
Waveform			Sinusoidal		
Power factor			1		
Total harmonic distortion (THDv)	<1% (full linear load); <3% (full non-linear load according to IC/EN62040-3)			1-3)	
Crest factor	3:1				
Overload	<110%, 60min; 110%~125%, 10min; 125%~150%, 1min; >150%, 200ms			S	
BATTERIES					
DC voltage	Long	time model: $\pm 240^{\circ}$	VDC (selectable, 3	32 - 40pcs)	
Standard model battery voltage	(10+10) × 9AH	(20+20) × 9AH	(15+15) × 9AH × 2 strings	(20+20) × 9AH × 2 strings	/
Charging current		10A Max		15A Max	20A Max
	1%				
Charger voltage precision			1%		<u>I</u>
			1%		
SYSTEM					
SYSTEM Display		95% Max	1% 5 inches touch screen	96%	Max
SYSTEM Display Efficiency		95% Max		96%	Max
Charger voltage precision SYSTEM Display Efficiency Transfer time	Standard: RS232. I		5 inches touch screen 0 ms		
Display Efficiency Transfer time Interface	Standard: RS232, I		5 inches touch screen 0 ms	96% rammable dry contact, s	
Display Efficiency Transfer time Interface ENVIRONMENT	Standard: RS232, I		5 inches touch screen 0 ms old start Option: progr		
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature	Standard: RS232, I		5 inches touch screen 0 ms old start Option: program $0^{\circ} \sim 40^{\circ}\text{C}$		
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature Storage temperature	Standard: RS232, I	RS485, USB, battery c	5 inches touch screen 0 ms old start Option: progr $0^{\circ} \sim 40^{\circ}\text{C}$ $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$	ammable dry contact, i	
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature Storage temperature Relative humidity	Standard: RS232, 1	RS485, USB, battery c	5 inches touch screen 0 ms old start Option: progr $0^{\circ} \sim 40^{\circ}\text{C}$ $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ $\sim 95\%$ (non-condensing)	ammable dry contact, s	
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature Storage temperature Relative humidity Altitude		RS485, USB, battery c 0 <1000m, load de	5 inches touch screen 0 ms old start Option: progr $0^{\circ} \sim 40^{\circ}\text{C}$ $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$	rammable dry contact, some significance of the second seco	
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature Storage temperature Relative humidity Altitude Noise level at 1 m	Standard: RS232, I	RS485, USB, battery c 0 <1000m, load de	5 inches touch screen 0 ms old start Option: progr $0^{\circ} \sim 40^{\circ}\text{C}$ $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ $\sim 95\%$ (non-condensing)	ammable dry contact, s	
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature Storage temperature Relative humidity Altitude Noise level at 1 m		RS485, USB, battery c 0 <1000m, load de	5 inches touch screen 0 ms old start Option: progr $0^{\circ} \sim 40^{\circ}\text{C}$ $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ $\sim 95\%$ (non-condensing)	rammable dry contact, some significance of the second seco	
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature Storage temperature Relative humidity Altitude Noise level at 1 m OTHERS Dimensions		0 <1000m, load de 3 Max 250 × 800 × 700 (S)	5 inches touch screen 0 ms old start Option: progr $0^{\circ} \sim 40^{\circ}\text{C}$ $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ $\sim 95\%$ (non-condensing)	rammable dry contact, some significance of the second seco	SNMP, parallel kit
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature Storage temperature Relative humidity Altitude Noise level at 1 m OTHERS Dimensions (W × D × H) (mm) Packaged dimensions	58 dE 250 × 720 × 560 (S)	0 <1000m, load de 3 Max 250 × 800 × 700 (S) 250 × 720 × 560 (H) 350 × 900 × 862(S)	5 inches touch screen 0 ms old start Option: progr $0^{\circ} \sim 40^{\circ}\text{C}$ $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ $\sim 95\%$ (non-condensire the per 100m from the per 1	rammable dry contact, standard or standard	SNMP, parallel kit
Display Efficiency Transfer time Interface ENVIRONMENT Operating temperature Storage temperature Relative humidity	58 dE 250 × 720 × 560 (S) 250 × 720 × 560 (H) 350 × 800 × 722 (S)	0 <1000m, load de 3 Max 250 × 800 × 700 (S) 250 × 720 × 560 (H) 350 × 900 × 862(S)	5 inches touch screen 0 ms old start Option: progr $0^{\circ} \sim 40^{\circ}\text{C}$ $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ $\sim 95\%$ (non-condensire the per 100m from the per 1	ammable dry contact, some series of the seri	

[•] S means standard model, H means long time model.

[•] Derate capacity to 90% when the number of batteries is set to 32 pcs for 40kVA/60kVA model.

[•] Custom-made specifications are acceptable

[•] All specifications are subject to change without notice.



MODEL	TEC9080	TEC90100			
Capacity	80 KVA/80KW	100 KVA/1000KW			
INPUT					
Input wiring	Three-phase five-wire $(3\Phi + N + PE)$				
Rated voltage	380 / 400 / 415 Vac				
Voltage range	304 - 485 Vac (no downgrading), 138 - 304 Vac (linear downgrading between 40% ~ 100% load)				
Rated frequency	50 / 60 Hz (auto-sensing)				
Frequency range	40 ~ 70 Hz				
Power factor	≥0.99				
Bypass voltage range	$-60\% \sim +20\%$ (settable)				
Total harmonic distortion (THDi)	≤3%				
OUTPUT					
Output wiring	Three-phase five-wire $(3\Phi + N + PE)$				
Rated voltage	380 / 400 / 415 Vac				
Voltage regulation	±1%				
Frequency	Synchronized with utility in mains mode, 50 / 60 Hz + 0.1 Hz in battery mode				
Waveform	Sinusoidal				
Power factor	1				
Total harmonic distortion (THDv)	≤ 1% (linear load): ≤ 4% (non-linear load)				
Crest factor	3:1				
Overload	105% ~110% for 60 min, 110% - 125% for 1	0 min, 125% - 150% for 1 min, >150% for 0.2 s			
BATTERIES					
DC voltage	±192 Vdc (+ 180 ~ ± 264 Vdc settable) 40 kVA built-in battery: ± 240 Vdc (80 pcs 9 Ah/12 V)				
Number of battery	32 pcs (30 - 44 pcs settable)				
Charging current (max.)	24 A				
Recharge time	Depend on the capacity of battery				
SYSTEM					
Efficiency	Max. 96% in online mode, 99% in ECO mode				
Transfer time	0 ms				
Protections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failu				
Max. number of parallel connections	4				
Communications	Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card				
Display	5 inches colorful LCD touch screen				
OTHERS					
Operating temperature	0°~40°C				
Storage temperature	-25°C~55°C (without battery)				
Relative humidity	0% - 95% (non-condensing)				
Altitude	≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m				
IP rating	IP 20				
Noise level at 1 m	≤ 65 dB				
Dimensions (W × D × H) (mm)	360 × 850 × 1200	440 × 850 × 1200			
Packaged dimensions(w×D×H)(mm)	450 × 940 × 1370	530 × 940 × 1370			
Netweight (kg)	156	158			
Gross weight (kg)	172	180			
All specifications are subject to o		Custom made specifications are accentable			

<sup>All specifications are subject to change without notice.
Derate capacity to 90% when the number of batteries is set to 30 pcs.</sup>

 $[\]bullet \ Custom\text{-made specifications are acceptable.} \\$