EnergyPRO+ Tower





- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Adjustable battery numbers
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Comprehensive display allows easy monitoring and access of

EnergyPRO+ Tower Online UPS Selection Guide

MODEL	gyr no Tov	EnergyPl	RO+ 1K (L)	Enor	gyPRO+ 2K (L)	Enc	rayPE	RO+ 3K (L)	EnergyPE	RO+ 6K (L)	EnergyPP	O+ 10K (L)	
		EnergyFi	KO' IK (L)	Ellel	gyrko· zk (L)					CO. BK (L)	EllergyFR	O' TUR (L)	
PHASE		4000) // (000) // (000) // (100						ase with gro / 2700 W		/ 5400W	10000 \/A	/ 9000 W	
CAPACITY*		1000 VA / 900 W 2000 VA / 1800 W					UU VA	7 2 7 0 0 VV	6000VA	/ 5400VV	10000 VA	7 9000 W	
									T				
Nominal Voltage		110/115/120/127VAC or 208/220/230/240VAC							208/220/230/240VAC				
Input Voltage Range		60-145 VAC or 120-300 VAC (Based on load at 50%) 90-145 VAC or 180-300 VAC (Based on load at 100%)							110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)				
Frequency Range		40 Hz ~ 70 Hz							46~54 Hz or 56~64 Hz				
Power Fa	ctor					≧ 0.99 @	Nomin	all Voltage	(100% load)				
OUTPUT													
Output Voltage			110/11	5/120/127\	/AC or 208/220/2	208/220/230/240VAC							
Voltage R	egulation							± 1 %					
Frequency	Range (Synchronized Range)			47~ 53	Hz or 57 ~ 63 Hz	46~54 Hz or 56~64 Hz							
Frequenc	y Range (Batt. Mode)			50 Hz	or 60Hz ± 0.5%	50 Hz or 60Hz ± 0.1 Hz							
Current C	rest Ratio							3:1					
Harmonic Distortion					THD (Linear Load	≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)							
Transfer AC Mode to Battery Mode		Zero							= 5 /0 THE (NOTHINGS LOSS)				
Time	Inverter to Bypass			4	ms (Typical)	Zero							
Waveform	n (Batt. Mode)												
EFFICIEN		l						Sinewave					
AC Mode		81	R0/_	<u> </u>	89%	1	90	10/_	02	20/_		30/4	
Battery Mode		88% 83%			87%	_	90%		92%		93%		
		0.	3 /0	07 /0		00	70	90%			1 /0		
Standard		40.14	/ O. A.I.	10.1/10.41			12 V / 9 Ah			40.1	40.41		
	Battery Type	-	/ 9 Ah		12 V / 9 Ah	_			40		/ 9 Ah	00	
	Numbers	2	3	4 6			6		16	20	16	20	
Model	Typical Recharge Time	4 hours recover to 90% capacit							9 hours recover to 90% capacity				
	Charging Current (max.)			I	,	82.1 VDC ±1%		1 A / 2 A			070) (D.O.		
	Charging Voltage	27.4VDC ± 1%	± 1% 41.0VDC ± 1% 54.7 VDC ±1% 82.1 VDC ±1%						218.4 VDC±1% 273VDC ±1% 218.4 VDC±1% 273VDC ±				
	Battery Type							on applica	The state of the s				
Long-run Model **	Numbers	2	2 3 4 6 8				6 8		16 ~ 20 (Adjustable)				
wodei	Charging Current (max.)	1.0A/2.0A/4.0A/6.0 A					I		1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batte				
	Charging Voltage	27.4VDC±1% 41.0VDC±1% 54.7VDC±1% 82.1 VDC±1% 109.4VDC±1% 82.1 VDC±1% 109.4VDC±1%							273 VDC ±1% (Based on 20pcs batteries)				
INDICATO	ORS				<u> </u>								
LCD				Load I	evel, Battery leve	I, AC mod	e, Batt	ery mode, I	Bypass mode, ar	nd Fault indicat	ors		
ALARM													
Battery Mode		Sounding every 4 seconds											
Low Batte	ery	Sounding every second											
Overload		Sounding twice every second											
Fault		Continuously sounding											
PHYSICA	\L												
Standard Model	Dimension, D x W x H (mm)	282x145 x220	397x145 x220	397 x 145 x 220	421 x 190 x 31	8 4	21 x 19	90 x 318	369 x 190 x 688		442 x 190 x 688	3	
	Net Weight (kgs)	9.8	11.4	17	26.2		27	.6	61	74	66	76	
Long-run Model **	Dimension, D x W x H (mm)	282 x 145 x 220 397 x 145			45 x 220	× 220		369 x 19	90 x 318	442 x 190 x 318			
	Net Weight (kgs)	4.1	4.4	6.8	6.8	7.6 7.8			1:	2	16		
ENVIRON	IMENT												
Humidity		20-90 % RH @ 0- 40°C (Non-condensing)								@ 0-50°C ndensing)	0-95% RH @ 0-40°C (non-condensing)		
Noise Level		Less than 50dB @ 1 Meter							Less than 55dB @ 1 Meter Less than 58dB @				
MANAGE													
	-232 / USB			Sunt	oorts Windows® 2	2000/2003	/XP/Vi	sta/2008. W	/indows® 7/8/10.	Linux and MA	C		
Optional S				- 201					iger and web bro	_	-		
<u> </u>	Ocrate to 700/ of connects in F				o output voltogo is				go. and web bit				

^{*1-3}KVA: Derate to 70% of capacity in Frequency converter mode or when the output voltage is adjusted to 208VAC

^{**}Long-run model is only available in 208/220/230/240VAC systems.

Product specifications are subject to change without further notice.

EnergyPRO⁺ Rack Tower





- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage range
- Converter mode available
- ECO mode for energy saving only available for 1-3K models
- Generator compatible
- Adjustable charging current via LCD or software (1A~6A)
- Emergency power off function (EPO) only available for 6K/10K models
- Comprehensive display allows easy monitoring and access of UPS status

EnergyPRO+ Rack Tower Online UPS Selection Guide

MODEL		EnergyPR	O+ 1KR(L)	Ener	gyPRO+ 2k	(R(L)	EnergyPR	O+ 3KR(L)	EnergyPR	O+ 6KR(L)	EnergyPRO	0+ 10KR (L)		
PHASE							Single ph	ase with gro	und					
CAPACITY*		1000 VA / 900 W 2000 VA / 1800 W					3000 VA	/ 2700 W	6000VA	/ 5400W	10000 VA	/ 9000 W		
INPUT														
Nominal Voltage		110/115/120/127VAC or 208/220/230/240VAC 208/220/230/240VAC												
Input Voltage Range		60-145 VAC or 120-300 VAC (Based on load at 50%) 90-145 VAC or 180-300 VAC (Based on load at 100%)							110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)					
Frequenc	y Range	40 Hz ~ 70 Hz 46~54 Hz or 56~64 Hz												
Power Fa	ctor					≧ 0.	.99 @ Nomin	all Voltage (100% load)					
OUTPUT														
Output Vo	oltage		110/11	5/120/127\	/AC or 208/	220/230/2	240VAC			208/220/2	30/240VAC			
Voltage R	egulation							± 1 %	,					
Frequency	Range (Synchronized Range)			47~ 53	Hz or 57 ~	63 Hz				46Hz ~ 54 Hz (or 56Hz ~ 64 Hz			
Frequenc	y Range (Batt. Mode)	50 Hz or 60Hz ± 0.5%							50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current C	rest Ratio							3:1	,					
Harmonic Distortion					THD (Linea	≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)								
Transfer	AC Mode to Battery Mode	Zero							0 ms					
Time	Inverter to Bypass			4 ms (Typical)					0 ms					
Waveforn	(Batt. Mode)	Pure Sinewave												
EFFICIEN	ICY													
AC Mode		88	%	89%			90%		92%		93%			
Battery Mode		83	%		87%			88%		90%		91%		
BATTER	1													
	Battery Type	12 V	12 V / 9 Ah 12 V / 9 Ah				12 V	/ 9 Ah	12 V / 9 Ah					
	Numbers	2	3				6		16	20	16	20		
Standard Model	Typical Recharge Time		4 hours recover to 90% capacit				/		(hours recover	to 90% capacity	/		
wodei	Charging Current (max.)	1 A							1A/2A (Adjustable)					
	Charging Voltage	27.4VDC ± 1%	DC ± 1% 41.0VDC ± 1% 54.7 VDC ±1%				82.1 VI	OC ±1%	218.4 VDC±1% 273VDC ±1% 218.4 VDC±1% 273VDC ±1					
	Battery Type						Depending	on applicat	tions					
Long-run	Numbers	2	3	4 6 8			6	8	16 ~ 20 (Adjustable)					
Model **	Charging Current (max.)			1.0A/2.0A/4.0A/6.0 A					1A/2A/4A/6A (Adjustable, 6A is only available for 16 pcs			6 pcs batteries		
	Charging Voltage	27.4VDC±1%	41.0VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%	109.4VDC ±1%	82.1 VDC ±1%	109.4VDC ±1%	218.4 VDC ± 1% (Based on 16 pcs batteries)			atteries)		
INDICATO	ORS													
LCD				Load I	evel, Batter	y level, A	C mode, Bat	tery mode, E	ypass mode, ar	nd Fault indicate	ors			
ALARM														
Battery M	ode						Sounding	every 4 seco	onds					
Low Batte	ery	Sounding every second												
Overload		Sounding twice every second												
Fault							Continuo	ously soundi	ng					
PHYSICA	.L													
Standard Model	Dimension, D x W x H (mm)	310 x 438 x 88		410 x 438 x 88			630 x 438 x 88		UPS Unit: 500x438x88 [2U] Battery Pack: 668x438x88 [2U]	UPS Unit: 500x438x88 [2U] Battery Pack: 580x438x133 [3U]	UPS 580x438 Battery 580x438	x133[3U] / Pack:		
	Net Weight (kgs)	12	14.1	19		29.3		UPS Unit:15 Battery Pack:48	UPS Unit: 15 Battery Pack: 61	UPS Unit: 18 Battery Pack: 51	UPS Unit: 18 Battery Pack: 6			
Long-run	Dimension, D x W x H (mm)	310 x 4	38 x 88	410 x 438 x 88		460 x 438 x 88		500 x 438 x 88 [2U]		580 x 438 x 133[3U]				
Model **	Net Weight (kgs)	9		12			14.2			5	18			
ENVIRON									<u>'</u>	-	'	-		
			00.00	0 // DU C	0.4000.00	n oc	naina)		0.00	0/ DU @ 0 400	C /non	in a)		
Humidity			20-90		0- 40°C (No	0-95% RH @ 0-40°C (non-condensing)								
Noise Level		Less than 50dB @ 1 Meter Less than 55dB @ 1 Meter Less than 58dB @ 1 Meter												
MANAGE														
Smart RS	-232 / USB			Supp					indows® 7/8/10,	_	<u> </u>			
Optional S	21110						ement from S							

^{*1-3}KVA; Derate to 70% of capacity in Frequency converter mode or when the output voltage is adjusted to 208VAC

^{**}Long-run model is only available in 208/220/230/240VAC systems.

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