4. Electrical Requirements

(1) UPS

	Ite	em	Ratings and Characteristics		Remarks
Type	Model No.		E11B102U002TH		
	Type No.		E11B102AA02AMTH / E11B102AA02DMTH		
	Topology		Hybrid / Double Conversion online		Automatic switching of operation mode (Fixed setting is available.)
	Operation mode		Economy mode	Double Conversion mode	(Note 1)
	Inverter system		-	High frequency PWM	
	Cooling method		Forced air cooling		
AC input	Rated voltage		230 V		Same as AC output
	Voltage range		Within ±8%	At load level < 40%: 110 to 300 V At load level < 70%: 136 to 288 V At load level ≥ 70%: 160 to 288 V	(Note 2) (Note 4)
	Rated frequency		50 / 60 Hz		Auto-sensing (Note 3)
	Frequency range		Within $\pm 1/3/5\%$	40-120 Hz	Same setting as output frequency regulation (Note 3)
	No. of phases/wires		Single-ph	Single-phase 2-wire (Note 5)	
	Required capacity		$1.1~\mathrm{kVA}$ or less		Max. capacity during battery charging
	Power factor		Same as load power factor	0.95 or more	At rated output
ıt	Rated capacity			/ 0.8 kW	
	No. of phases/wires		Single-phase 2-wire 230 V		
	Rated voltage Voltage waveform		23	Sine wave	Settings cannot be changed
	Voltage wavelorm Voltage regulation		Within -10 to +8%	Within ±2%	(Note 4)
	Rated frequency			60 Hz	Same as input frequency
	Frequency regulation	Normal operation	Within ±1/3/5%	In automatic setting Within ±1/3/5% When Double Conversion mode is fixed.	Frequency regulation setting can be changed. (Default: ±3%) Setting cannot be changed when operation mode is fixed. During asynchronous operation: Within ±0.5% (Note 3)
		Battery		Within ±1%	WITHIN ±0.5% (Note 5)
		operation	Within ±0.5%		
ıtpı	Voltage	At linear load	-	3% or less	At rated output
AC output	harmonic distortion	At rectifier load	-	8% or less	
	Transient voltage fluctuation	Abrupt input voltage change Rapid load	-	Within ±5%	For ±10% rapid (Note 7) voltage changes For 0⇔100%
		change			load step changes
		Loss or return of input power			At rated output
		Response time		5 cycles or less	
	Rated load power factor		0.8 (lagging)		Variation range: 0.7 (lagging) to 1.0
	Overload	Inverter	-	105% , $200~{\rm ms}$	Automatic transfer to bypass (Note 6)
	capacity	Bypass	200%, 30 s 800%, 2 cycles		
Heat dissipation			25 W	130 W	After battery charging
Noise			40 dB or less	48 dB or less	1 m from front of device, A-weighting
Input leakage current			3 mA	or less	11 0 : 1 "

Note 1: There are two operation mode settings: "Auto" and "Fixed Double Conversion mode."

For the "Auto" setting, the following operation modes are automatically switched depending on the power environment you are using.