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FICHA TÉCNICA DEL SAI – DECLARACIÓN DEL FABRICANTE / UPS *TECHNICAL DATA SHEET – MANUFACTURER'S DECLARATION*	SLC-TWIN RT3 LION 1-3 kVA	
Dispositivo / *Device*	Código / *SLC Code*	6B4LA000001/6B4LA000002/6B4LA000003/6B4LA000004
	Modelo / *Reference model*	SLC-1000-TWIN RT3 LION / SLC-1500-TWIN RT3 LION/ SLC-2000-TWIN RT3 LION / SLC-3000-TWIN RT3 LION
	Descripción / *Description*	SAI IoT On-line doble conversión Torre/Rack de 1000 VA a 3000 VA con baterías de ion litio / IoT On-line double conversion Tower/Rack UPS from 1,000 VA to 3,000 VA with lithium-ion batteries
Objetivo / *Objective [Description]*		Proporcionar las especificaciones técnicas según la norma IEC 62040-3 / *Provide the technical specifications according to IEC 62040-3*
Normativa / *Regulation*		EN IEC 62040-3

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Declaration of UPS technical data according to IEC 62040-3

Subclause description [test item]	Declared characteristic	Units/Value	Manufacturer's declared value [default value]
	General		
	Model	*Manufacturer's designation*	SLC-1000-TWIN RT3 LION SLC-1500-TWIN RT3 LION SLC-2000-TWIN RT3 LION SLC-3000-TWIN RT3 LION
3.5.35 *5.3.2 j)*	*Rated output apparent power*	*VA*	1KVA/1.5KVA/2KVA/3KVA
3.5.36 *5.3.2 j)*	*Rated output active power*	*W*	1KW/1.5KW/2KW/3KW
	Performance, configuration and topology		
5.3.2 a) *[6.2.2.7]* *[6.4.1.2]* *[6.4.1.3]*	*Performance classification*	*VFD BB CC VI* *BB CC VFI BB CC*	VFI-SS-31
3.3.7 *[Annex F]*	***Multiple normal mode UPS*** *If yes, applicable set of input dependency characteristics*	*Yes/no* *(VFD, VI, VFI),* *(VFD, VI),* *(VFD, VFI)* *(VI, VFI)*	Yes VFD, VI, VFI
5.1.1 *Annex A*	*Configuration*	*Single Parallel* *Redundant* *Dual bus* *Bypass*	Single output bus UPS
5.1.1 *Annex B*	*Topology*	*Double-conversion* *Line-interactive* *Standby*	Double conversion
	Operating conditions – Environmental		
	Dimensions in use/installed (height × width × depth)	*H x W x D mm*	1k/1.5k:438*85.5*445 2k/3k: 438*85.5*600
	Mass in use/installed (with energy storage device if integrated)	*kg*	1k/1.5k:15.1kg 2k/3k: 21.3kg
4.1, 4.3.2	*Pollution degree*		[PD2]
4.2.2.1, 4.3.2 *[6.5.3]*	*Ambient temperature range, operating*	*°C*	[0 °C to 40 °C]
4.2.2.1, 4.3.2 *[6.5.3]*	*Relative humidity, ambient range, operating*	*% (non-condensing)*	[0 to 95%]
4.2.2.2, 4.3.2 *4.3.2, Table 2*	*Altitude, maximum operating* *– without output power derating*	*m*	[sea-level to 1 000 m]
	– with output power derating	*m* *at …. % power*	[3 000 m] The load should derating 1 % every up 100m
4.3.2	*Other unusual operating conditions*	*yes (details), no*	no
6.5.4, *[6.5.4]*	*Acoustic noise: A-sound pressure ($L_{pA,m}$) at 1 m* *– in normal mode*	*dB (20 µPa)*	<45dB for 1K/1.5K <50dB for 2K/3K
	– in stored energy mode	*dB (20 µPa)*	<45dB for 1K/1.5K <50dB for 2K/3K

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	Storage and transportation conditions – Environmental		
4.2.3, 4.3.3 [6.5.2]	*Ambient temperature range*	*°C*	[–25 °C to +55 °C] Without battery [0~35°C] With battery
4.2.3, 4.3.3 [6.5.2]	*Relative humidity, ambient range*	*% (non-condensing)*	[10 % to 95 %]
4.2.3, 4.3.3	*Altitude, maximum permitted* *or* *Ambient air pressure, minimum permitted*	*M* *kPa*	[3 000 m] or [70 kPa]
4.2.3, 4.3.3	*Energy storage device, specific storage or transportation conditions*	*yes (details), no*	no
4.3.3	*Other unusual storage and transportation conditions*	*yes (details), no*	no
	5.2 UPS input specification		
5.2.2 a)	*Number of phases*		1
5.2.2 b)	*Neutral requirements*		Yes
5.2.2 c) [6.4.1.4]	*Rated input current*	*A*	1k:4.9A 1.5k:7.3A 2k:9.5A 3k: 14.2A
5.2.2 d) [6.4.1.8]	*Input power factor*		1k:4.9A 1.5k:7.3A 2k:9.5A 3k: 14.2A
5.2.2 e) [6.4.1.6]	*Inrush current*	*%* *s*	Less than 8 times of rated input current (not include charging current)
5.2.2 f) [6.4.1.5]	*Maximum input current*	*A*	1k:5.65A 1.5k:7.78A 2k:10.45A 3k: 15.25A
5.2.2 g) [6.4.2.9.1]	*Input current at overload capacity (where applicable curve of current against time)*	*%* *s*	5min @ 125% rated load 1k:6.58A 1.5k:9.58A 2k:12.68A 3k: 18.58A 30 s @ 150% rated load 1k:7.78A 1.5k:11.48A 2k:14.98A 3k: 22.08A
5.2.2 h), [6.4.1.7]	*Total harmonic distortion of current*	*%*	1k < 5.5% 1.5k/ 2k /3k < 5% 100% Rated resistive load or non-linear load Rated input voltage Rated input frequency, battery is fully charged
5.2.2 i)	*Minimum short-circuit power (S_{sc}) capacity required from the AC input power*	*VA*	N/A
5.2.2 j)	*Earth leakage current*	*mA*	[< 3,5 mA]
5.2.2 k)	*AC power distribution system compatibility*	*TN; TT; IT*	TN-S/IT system
5.2.2 m) [6.4.1.3]	*Rated input voltage* *Input voltage tolerance band*	*V* *+ %, – %*	Rated input voltage: 200/208/220/230/240V Maximum input voltage range 110V~300V

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Subclause description [test item]	Declared characteristic	Units/Value	Manufacturer's declared value [default value]
5.2.2 m) [6.4.1.3]	Rated input frequency Input frequency tolerance band	Hz + %, – %	50Hz/60Hz [± 2 %]
5.2.3 a)	UPS compatibility with unusual input harmonic voltage distortion	yes (details), no	No
5.2.3 b)	UPS compatibility with specific input supply protective devices	yes (details), no	No
5.2.3 c)	UPS compatibility with all-pole isolation from the AC input power	yes, no	No
5.2.3 d)	UPS compatibility with a specific standby generator	yes (details), no	No
	5.3 UPS output specification		
5.3.2 b)	Rated output voltage RMS output voltage tolerance band	V + %, – %	200/208/220/230/240V
5.3.2 j)	Rated output current	A	N/A
5.3.2 l), [6.4.2.9.3]	Minimum inverter current limit (ik1, ik2, or ik3 as applicable) (% of rated current or actual current (A) and sustaining time)	% or A_{RMS} s	N/A
5.3.2 c)	Rated frequency Free-running output frequency tolerance band (non-synchronized)	Hz + %, – %	50Hz/60Hz [± 0.1Hz]
5.3.2 d), [6.4.1.3]	Output frequency tolerance band accepted by the UPS inverter for synchronization with an external source Maximum phase angle between the inverter and external source voltage waveforms;	(min) to (max) Hz degrees	50Hz/60Hz [± 0.1Hz] < 3 degrees
5.3.2 e), [6.4.1.3]	Rate of change of frequency (slew-rate) when synchronizing	Hz/s	< 1±0.5Hz/s
5.3.2 f)	Number of phases available		1ϕ
5.3.2 g)	Neutral availability	yes, no	yes
5.3.2 h)	AC power distribution system compatibility	TN, TT or IT	TN-S/IT system
5.3.2 i) [6.4.2.2] [6.4.2.3]	Total harmonic distortion of voltage: – normal mode (If multiple normal mode UPS, for each applicable input dependency characteristic – stored energy mode	% %	Normal mode&Battery mode Linear load: < 1% non-linear load< 4%
5.3.2 a) [6.4.2.10.5] [Annex H]	Dynamic output performance following a step load application	Dynamic output performance class 1, 2 or 3	Classification 1
5.3.2 k), [6.4.2.9.1]	Overload capacity – normal mode	% / s	Input voltage >=185V 100%~105% Continuous 105%~125% ≥ 5 min 125%~150% ≥ 30s >150% ≥ 500ms 160V < Input voltage < 185V 100%~105% Continuous

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Declaración datos técnicos del SAI según IEC 62040-3 /
Declaration of UPS technical data according to IEC 62040-3

Subclause description [test item]	***Declared characteristic***	***Units/Value***	***Manufacturer's declared value [default value]***
			105%~125% ≥ 1 min 125%~150% ≥ 10s >150% ≥ 500ms
	– *stored energy mode*	*% / s*	100%~105% Continuous 105%~125% ≥ 2 min 125%~150% ≥ 10s >150% ≥ 500ms
	– *bypass mode*	*(See Bypass section in thisTable D.1)*	100%~105% Continuous 105%~125% ≥ 10 min 125%~150% ≥ 5min >150% ≥ 500ms
	RMS output voltage tolerance band affected?	*Yes/no*	no
	If yes, new tolerance band	*+ %, – %*	N/A
5.3.2 m), [6.4.2.9.2]	*Fault clearing capacity (max. protective device)* – *normal mode*	*A trip curve* *dynamic output performance class 1, 2, 3, or* *clearing time(ms)*	Enable: inverter continues output 100% of rating current for 4s, if the output voltage recovers to >=50% of the nominal output voltage (RMS), the UPS stay on the original mode (INV mode), otherwise, cuts off the output. Disable: inverter limits the current within 120ms, and then goes to fault-mode, cutting off the output.
	– *stored energy mode*		
5.3.2 n)	*Load power factor at rated load*		RCD Load: PF 0.6~1 No derating RCD Load: PF 0.3~0.6 Derating 30% RL/RC Load: PF 0.3~0.8 Derating 30% RL/RC Load: PF 0.8~1 No derating
5.3.2 o)	*Permissible displacement power factor tolerance band of the load (cos Φ)*	*% Lead to % Lag*	N/A
5.3.2 p) *[6.4.2.4]*	*Voltage unbalance resulting from 100 % load unbalance ratio (polyphase UPS only)*	*%*	N/A
5.3.2 q) [6.4.1.9] [Annex J]	*UPS efficiency in normal mode* *If multiple normal mode UPS, for each applicable input dependency characteristic* – $Eff_{100\ \%}$	*%*	89% for 1k/1.5k 93% for 2k/3k
	– $Eff_{75\ \%}$	*%*	89% for 1k/1.5k 92.5% for 2k 93% for 3k
	– $Eff_{50\ \%}$	*%*	87% for 1k/1.5k 91.5% for 2k 92.5% for 3k
	– $Eff_{25\ \%}$	*%*	80% for 1k/1.5k 87% for 2k 90% for 3k
[Annex I]	– Eff_{W}	*%*	82%
5.3.2 r), [6.4.1.10] [Annex J]	*No load losses* *If multiple normal mode UPS, for each applicable input dependency characteristic*	*W*	N/A

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Declaration of UPS technical data according to IEC 62040-3

Subclause description [test item]	***Declared characteristic***	***Units/Value***	***Manufacturer's declared value [default value]***
5.3.2 s), [6.4.2.10.6]	*Parallel redundant UPS failure* *– High impedance failure*	*Dynamic output performance class 1, 2 or 3*	N/A
	– Low impedance failure	*Dynamic output performance class 1, 2 or 3*	N/A
5.3.2 t), [6.4.2.6]	*Rated output active power and rated output apparent power for a system consisting of two UPS operating in parallel (if applicable)*	*W* *VA*	N/A
Bypass (as applicable)			
5.5.1, Clause C.3 [6.2.2.3 g)]	*Maintenance bypass switch*	*Internal or External*	External
Clause C.2, [6.2.2.3 f)], [6.2.2.9]	*Automatic bypass switch*	*Static or electro-mechanical*	Electro- mechanical
5.3.4.4: 1st character [6.4.2.10.4]	*Bypass switch transfer time*	*≤ 0,1 ms* *≤ 1,0 ms* *≤ 10 ms* *> 10 ms*	≤ 10 ms
5.2.2 a)	*Number of phases*		1
5.2.2 b)	*Neutral requirements*		yes
5.2.2 c)	*Rated current*	*A*	no
5.3.2 k) [6.4.2.9.1]	*Overload capacity: % of rated current and time duration*	*%* *s*	100%~105% Continuous 105%~125% ≥ 10 min 125%~150% ≥ 5min >150% ≥ 500ms
5.2.3 b)	*Bypass protective device rating*	*A* *Trip curve*	C IEC 60898-1
5.2.2 j)	*Earth leakage current*	*mA*	< 3,5 mA
5.2.2 d)	*Power factor*		1
5.2.2 i)	*Minimum short-circuit power (S_{sc}) capacity required from the AC input power*	*VA*	no
5.2.2 k)	*AC power distribution system compatibility*	*TN; TT; IT*	TN-S/IT system
5.2.2 l)	*Rated voltage* *Voltage tolerance band*	*V* *+ %, – %*	187~264V
5.2.2 m)	*Rated frequency* *Frequency tolerance band*	*Hz* *+ %, – %*	50Hz/60Hz [± 0.5Hz

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Declaration of UPS technical data according to IEC 62040-3

Subclause description [test item]	***Declared characteristic***	***Units/Value***	***Manufacturer's declared value [default value]***
Clause B.1	*Bypass isolation transformer*	*(details)*	no
5.2.2 e)	*Inrush current (if transformer or inductor is supplied)*	*% s*	Less than 8 times of rated input current (not include charging current)
5.4.2 Energy storage device – Battery			
5.4.2.2 a)	*Service life*	*years*	5 years @ 25℃
5.4.2.2 b)	*Quantity of blocks or cells and of paralleled strings if more than one string*		15*3.2V *3for 1k/1.5k 24*3.2V *3for 2k/3k
5.4.2.2 c)	*Nominal string voltage*	*V DC*	48V for 1k/1.5k 76.8V for 2k/3k
5.4.2.2 d)	*Battery technology*	*Vented or valve-regulated lead-acid, NiCd, NiMH, Li-Ion, etc.*	Li-Ion
5.4.2.2 e)	*Nominal capacity of total battery and reference discharge rate (Cx rate)*	*AhCx*	9Ah [C10] *]*
5.4.2.2 f) [6.4.3.1]	*Stored energy time (back-up time at reference test load)*	*hh:mm*	18 min(±15%) for 1k 11 min (±15%) for 1.5k 15 min(±15%) for 2k 10 min(±15%) for 3k
5.4.2.2 g) [6.4.3.2]	*Restored energy time (recharge time to90 % capacity)*	*hh:mm*	3.7h ±10%for 1K/1.5K 4.6h ±10%for 2K/3K
5.4.2.2 h)	*Ambient temperature at which battery performance is rated*	*°C*	25°C
5.4.2.2 i)	*Earth condition of DC port (remote battery only)*	*(+), (–) or centre or Not earthed*	no
5.4.2.2 i)	*Isolation of DC port from input and/or output (remote battery only)*	*- Referenced to input or output, or - Isolated from input and output*	no
5.4.2.2 j)	*battery ripple current during normal mode operation (if exceeding 5 % of total battery Ah capacity)*	*% of the numericalAh capacity [C10 discharge rate]*	<1A (Suggest not exceeding 5% of the numerical Ah capacity)
5.4.2.2 k) to r)	*Additional characteristics provided by the battery supplier for a remote battery*		no
5.4.2.3	*Additional or unusual conditions*		no
5.6 Communication circuits			
5.6	*Signal, control and communication ports available*		RS232 USB Dry out & RPO & Dry in IoT Lithium Comm.. EBM detection Intelligent Card slot

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