

Certificate of Conformity

Certificate Number: CN-PVES-260157

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Zendure USA Inc. 1765 E BAYSHORE RD # 201 EAST PALO ALTO, CA 94303-5501 USA
Product:	SolarFlow 4000 Mix Pro Power Station SolarFlow 4000 Mix AC+ Power Station SolarFlow 3000 Mix AC+ Power Station
Ratings & Principle Characteristics:	Compliance with the parameters of appendix C of the standard (FD C11-519-11:2023) (see appendix table of parameters)
Model:	ZDA2501, ZDA2502, ZDA2601
Brand Name<s>:	ZENDURE SuperCharged+-
Product Complies with:	EN 50549-1: 2019+A1:2023, EN 50549-10:2022,
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	260119156GZU-001, 07 May 2026



Signature

Certification Manager: Grady Ye

Date: 19 May 2026



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Model	ZDA2501	ZDA2502	ZDA2601
PV Input			
Max. input Voltage	400 Vdc	--	
Operating voltage Range	30 -400 Vdc	--	
Max. input current	2*17.2 Adc	--	
PV Isc	2*18 Adc	--	
Max. input Power	8000 W (2*4000W)	--	
AC Side			
Nominal input/output voltage	230 Vac		
Nominal input/output Frequency	50 Hz		
Max. continuous output/input current (on-grid)	17.4 Aac	13Aac	
Max. continuous output/input power(on-grid)	4000 W	3000 W	
Max. continuous input current (off-grid PV-IN AC terminal)	21.7 Aac	--	
Max. continuous input Power (off-grid PV-IN AC terminal)	5000 VA	--	
Max. continuous output/input current (off-grid terminal)	16 Aac		
Max. continuous output/input power (off-grid terminal)	3680 VA		
Power factor	0.8leading~0.8lagging		
Battery Side			
Battery Type	LiFePO4		
Battery Rated Energy	8038.4 Wh		
Battery Rated Voltage	25.6 V dc		
Battery Capacity	314Ah		
Charge/Discharge Voltage Range	21.6~29.2 Vdc		
Max. Charge/Discharge Power	4000 W		
Max. Charge/Discharge Current	185.2 Adc		
General information			
Safety level	Class I		
Ingress Protection	IP 65		
Operation Ambient Temperature	-20°C - +55°C		
Software version	V2		

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Table of parameters for the application of EN 50549-1 (FD C11-519-11)			
Section(s) / paragraph(s) of the Standard	Parameter	Typical range of values	Default settings used
4.3.2 Decoupling switch	Simple fault immunity for decoupling switch required	Yes No	Yes
4.4.2 Operating frequency range	47.0 – 47.5 Hz Duration	0 – 20 s	0 s
	47.5 – 48.5 Hz Duration	30 – 90 min	30 min
	48.5 – 49.0 Hz Duration	30 – 90 min	30 min
	49.0 – 51.0 Hz Duration	not configurable	Not limited
	51.0 – 51.5 Hz Duration	30 – 90 min	30 min
	51.5 – 52 Hz Duration	0 – 15 min	0s
4.4.3 Minimum requirements for the provision of active power in underfrequency situations	Reduction threshold	not configurable 49 Hz – 49.5 Hz	49.5 Hz Electronic inverter. no power reduction takes place
	Maximum rate of reduction	not configurable 2 – 10% PM/Hz	≤ 2%
4.4.4 Continuous Operating Voltage Range	Upper limit	not configurable 1.0 Un – 2.0Un	1.15 Un 1.10 Un, without duration
	Lower Limit	not configurable 0.9Un – 1.0 Un	0.85Un. 0.90 Uc 95 %Uc without duration
4.5.2 Rate of Change Immunity (ROCOF)	ROCOF holding capacity (defined with a 500 ms sliding measuring window) non-synchronous production technology: Non-synchronous generation technology (inverter): (Inverter) Synchronous generation technology: (Synchronmaschine)	undefined Yes not	2 Hz/s

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4.5.3.2 Central electric with Production No synchrone	Tension-Time Diagram	see Figure 6 of EN 50549-1	Time [s]	U [p.u.]
			0.00	0.20
			0.15	0.20
			1.50	0.85
			180	0.85
			180	0.90
	Fast short-circuit current		17.4A	
	Recovery of the active power after a court-circuit		Start at 90% Un	
	Recovery of the active power (times calculated from the elimination of the court-Value for active power restored		≤ 5 s	
	Precision for recovery of active power		≥ 90 %	
4.5.4 Resistance to Voltage Peaks (OVRT)	Tension-time diagram		Time [s]	U [p.u.]
			0.0	1,25
			0.1	1,25
			0.1	1,20
			5.0	1,20
			5.0	1,15
			60.0	1,15
			60.0	1,10
	Recovery of the active power after a court-circuit	configurable	Start at 90% Un	
	Recovery of the active power (times calculated from the elimination of the court-	configurable	≤ 5 s	
	Value for active power restored		≥ 90 %	
	Precision for recovery of active power		≤ 10 %	
	The contribution of reactive power a priority of priority	Yes No	Yes	

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4.6.1 Overfrequency Power Response (LFSM-O)	Threshold frequency f1	50.2 Hz – 52 Hz	50.2 Hz
	Droop	2 % – 12 %	5 %
	Power Reference	PM Pmax	PM for non-synchronous production technologies Pmax for EESS production technologies
	Intentional delay	0 – 2 s	0 s
	Deactivating threshold fstop	50.0 Hz – f1	Disabled
	Deactivation time Tstop	0 – 600 s	--
	Acceptance of a Stage decoupling	Yes No	Yes
4.6.2 Power response to underfrequency	Threshold frequency f1	49.8 Hz – 46 Hz	49.8 Hz
	Droop	2 – 12 %	5 %
	Power Reference	PM Pmax	Pmax
	Intentional delay	0 – 2 sec.	0 s
4.7.2.2 Capabilities [in Reactive power]	Over-excited reactive power factor range	0.90 – 1 / 48% Pd - 0	0.9
		0.95 – 1 / 33% Pd - 0	
	Under-excited reactive power factor range	0.90 – 1 / 48% Pd - 0	0.9
		0.95 – 1 / 33% Pd - 0	
4.7.2.3 Methods of Command	Activated command mode	Q setp.	Enabled
		Q(U)	Disabled
		Q(P)	Disabled
		cos ϕ setp.	Disabled
		cos ϕ (P)	Disabled
	Point of deposit Q and excitation	0% – 48% PD. 0% – 33% PD	0
4.7.2.3.2 Set Point Control Modes	Point of deposit cos ϕ and excitation	1 – 0.9	1
4.7.2.3.3 Voltage-Controlled Control Modes	Characteristic curve	cos ϕ (P) Q(P)	Specify the default characteristic
	Constant of time	3 s – 60 s	10 s
	cos ϕ min.	0.0 – 1	0.9
	Locking power	0 % – 20 %	Disabled
	Unlocking power	0 % – 20 %	Disabled
4.7.2.3.4 Method of Power-Servo Control	Characteristic curve	Q(U)	(U) (inversion triface)
		P(U)	0.00...-0.436
			0.92...-0.436
			0.94... 0.0
			1.06... 0.0
			1.08... 0.436
			1.20... 0.436
			P(U) Disabled

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4.7.4.2.2 Zero-current mode for inverter-based generation technologies	Activation	Activer desactiver	Disabled
	Static Voltage Range Overvoltage	100% Un – 120% Un	120% Un
	Static voltage range undervoltage	20% Un – 100% Un	50% Un
4.9.3 Requirements for voltage and frequency protection	Threshold for protection as a dedicated device [in A or kW, kVA]	HF161F-W:17.4A Note: Rated current of the internal safety device!	Internal security system
	Stage 1 Undervoltage Threshold	0.2 Un – 1 Un	0.85 Un
	Operating time at minimum voltage stage 1	0.1 s – 100 s	1.2 – 1.5 s
	Stage 2 Undervoltage Threshold	0.2 Un – 1 Un	Not required
	Operating time at minimum voltage phase 2	0.1 s – 5 s	Not required
	Stage 1 overvoltage Threshold	1.0 Un – 1.2 Un	1.15 Un
	Operating time at maximum voltage phase 1	0.1 s – 100 s	0.1 – 0.2 s
	Stage 2 overvoltage Threshold	1.0 Un – 1.3 Un	1.25 Un
	Operating time at maximum voltage phase 2	0.1 s – 5 s	0.1 s
	Surge threshold 10 min average protectiona	1.0 Un – 1.15 Un	1.10 Un
	Operating time at maximum voltage 10 min average	0.04 s – 10.00 s	10 min (refresh every 3s)
	Stage 1 underfrequency threshold	47.0 Hz – 50.0 Hz	47.5 Hz
	Underfrequency Stage 1 Run Time	0.1 s – 100 s	0.3 s – 0.5 s
	Phase 2 underfrequency threshold	47.0 Hz – 50.0 Hz	Not required
	Phase 2 underfrequency Run Time	0.1 s – 5 s	Not required
	Phase 1 Overfrequency Threshold	50.0 Hz – 52.0 Hz	52.0 Hz
	Phase 1 over-frequency operating time	0.1 sec – 100 sec	0.3 s – 0.5 s
	Phase 2 overfrequency threshold	50.0 Hz – 52.0 Hz	Not required
	Phase 2 over-frequency operating time	0.1 sec – 5.0 sec	Not required
	Network loss according to EN 62116 (LoM)	0 s – 6000 s	ROCOF 2,5 Hz/s (0,5 s) active 2 s (5 s)

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4.10.2 Automatic Recoupling After Triggering	Mini frequency	47.0 Hz – 50.0 Hz	49.5 Hz
	Maxi frequency	50.0 Hz – 52.0 Hz	50.2 Hz
	Mini voltage	50% – 100% Un	85% Un. 90% Un
	Maxi voltage	100% – 120% Un	110% Un
	Observation time	10 s – 600 s	60 s
	Gradient of increase in Active Power	6% – 3000% / min	10% / min
4.10.3 Start-up of electricity generation	Mini frequency	47.0 Hz – 50.0 Hz	49.5 Hz
	Maxi frequency	50.0 Hz – 52.0 Hz	50.1 Hz
	Mini voltage	50% – 100% Un	85% Un. 90% Un
	Maxi voltage	100% – 120% Un	110% Un
	Observation time	10 s – 600 s	60 s
	Gradient of increase in Active Power	6% – 3000% / min	Off
4.11.1 Active Power Interruption	Remote control of The logical interface	RS485, WiFi, local	
4.11.2 Reduction of active power at a set point	Remote control NOTE If yes, an additional definition is provided by the DSG	RS485, WiFi, local	
4.12 Remote Information Exchange	Exchange of information at Distance required NOTE If yes, an additional definition is provided by the DSG	Not required	

Type approval for type A and B