



Summary of		EN12976-2		SOLAR SYSTEM test results		Licence Number		011-752715 A				
Annex to Solar KEYMARK Certificate						Issued		2016-11-08				
Company		Linuo Ritter International Co., Ltd.				Country		China				
Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com				
Street		No. 30766 East Jingshi Road				E-mail		info@linuo-ritter-international.com				
Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920				
System classification												
Application(s)					Hot water							
Solar loop, circulation principle					Thermosyphon							
Direct solar loop / heat exchanger					Direct							
Open, vented or closed solar loop					Closed							
Drain back/down					Always filled (no drain)							
Store location					Outdoor							
Store orientation (of main axis)					Horizontal							
Type of auxiliary heating (internal back-up heat)					None							
If other auxiliary/internal back-up heating, please specify:												
Solar+supplementary OR Solar-only / Solar pre-heat					Solar only / Solar preheat							
Collector(s)					Heat store(s)							
Company		Linuo Ritter International Co., Ltd.			Company		Linuo Ritter International Co., Ltd.					
Keymark lic.no. if available		NA			Keymark lic.no. if available		NA					
Collector name		Per module			Store name		Total nominal volume litres	Gross height mm	Gross width mm	Gross depth mm	Auxiliary heated volume litres	Electrical aux. heating power kW
		Gross Area (Ag) m ²	Gross length mm	Gross width mm								
R1810-58-75		1.43	1803	795	LPPCA58-1810-30-AR		115	1165	480	480	-	-
R1812-58-75		1.75	1803	968	LPPCA58-1812-30-AR		125	1264	480	480	-	-
R1815-58-75		2.20	1803	1220	LPPCA58-1815-30-AR		158	1560	480	480	-	-
R1820-58-75		2.83	1803	1568	LPPCA58-1820-30-AR		204	1964	480	480	-	-
R1825-58-75		3.50	1803	1943	LPPCA58-1825-30-AR		255	2364	480	480	-	-
R1830-58-75		4.18	1803	2318	LPPCA58-1830-30-AR		306	2764	480	480	-	-
Solar loop controller					Solar loop fluid							
Keymark lic.no. if available		NA			Recommended/required		Recommended					
Company		NA			Company		NA					
Name		NA			Name		NA					
Solar loop pump - power range		- W to - W			Freezing point		-30 °C					
System family overview												
Number of collectors in each configuration for each store												
Collector name		Store name										
		LPPCA58-1810-30-A	LPPCA58-1812-30-A	LPPCA58-1815-30-A	LPPCA58-1820-30-A	LPPCA58-1825-30-A	LPPCA58-1830-30-A					
R1810-58-75		1										
R1812-58-75			1									
R1815-58-75				1								
R1820-58-75					1							
R1825-58-75						1						
R1830-58-75									1			
Testing Laboratory					TUV Rheinland (Shanghai) Co., Ltd							
Website					www.tuv.com							
Test report id. number					154150039_EN_Linuo_System_LPPCA58-1810_Report_zhao; 154150039_EN_Linuo_System_LPPCA58-1815_Report_zhao							
Date of test report					2016-11-08							
Comments of test lab												
Performance results are based on LPPCA-58-1815-30-AR system.												



Summary of		EN12976-2		test results		Certification No.		011-752715 A					
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Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LPPCA58-1810-30-A	LPPCA58-1812-30-A	LPPCA58-1815-30-A	LPPCA58-1820-30-A	LPPCA58-1825-30-A	LPPCA58-1830-30-A							
R1810-58-75	1												
R1812-58-75		1											
R1815-58-75			1										
R1820-58-75				1									
R1825-58-75					1								
R1830-58-75						1							
Name of system configuration						LPPCA58-1810-30-AR							
Collector name		R1810-58-75		No. Collectors		1		Storage name		LPPCA58-1810-30-AR			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh MJ/y	Daily drawoff 80 l				Daily drawoff 110 l				Daily drawoff 140 l			
		Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %
Stockholm SE	-	4478	2242	-	50.2	6150	2416	-	39.3	7821	2476	-	31.7
Würzburg DE	-	4289	2365	-	55.2	5897	2561	-	43.5	7506	2630	-	35.1
Davos CH	-	4857	3311	-	68.3	6654	3469	-	52.2	8483	3564	-	42.0
Athens GR	-	3343	2747	-	82.6	4573	3248	-	70.9	5834	3595	-	61.6
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f _{sol} =Q _L /Q _d	-	Solar fraction											
Ref. conditions		Stockholm SE		Würzburg DE		Davos CH		Athens GR					
		G	1 157	1 230	1 684	1 736							
		T _{a,ave}	7.5	9.0	3.2	18.5							
		T _{c,ave}	8.5	10.0	5.4	17.8							
		± ΔT _c	6.4	3.0	0.8	7.4							
G	kWh/m ²	Annual irradiation South, 45°											
T _{a,ave}	°C	Annual average outdoor air temperature											
T _{c,ave}	°C	Annual average mains cold water temp.											
ΔT _c	K	Seasonal variation of T _c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side				600 kPa		Max. operating press. - tank side				600 kPa			
Testing Laboratory				TUV Rheinland (Shanghai) Co., Ltd									
Website				www.tuv.com									
Test report id. number				154150039_EN_Linuo_System_LPPCA58-1810_Report_zhao; 154150039_EN_Linuo_System_LPPCA58-1815_Report_zhao									
Date of test report				2016-11-08									
Test method				ISO 9459-5 (DST)									
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

Version 3.6, 2014-06-18



Summary of		EN12976-2		test results		Certification No.		011-7S2715 A					
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System family overview													
For each storage and collector size, give number of collectors													
Collector name	LPPCA58-1810-30-A	LPPCA58-1812-30-A	LPPCA58-1815-30-A	LPPCA58-1820-30-A	LPPCA58-1825-30-A	LPPCA58-1830-30-A							
R1810-58-75	1												
R1812-58-75		1											
R1815-58-75			1										
R1820-58-75				1									
R1825-58-75					1								
R1830-58-75						1							
Name of system configuration						LPPCA58-1812-30-AR							
Collector name		R1812-58-75		No. Collectors		1		Storage name		LPPCA58-1812-30-AR			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff				Daily drawoff				Daily drawoff			
		Qd,hw	QL	Qpar	f_{sol}	Qd,hw	QL	Qpar	f_{sol}	Qd,hw	QL	Qpar	f_{sol}
	MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%
Stockholm SE	-	4478	2362	-	52.9	6150	2690	-	43.8	7821	2838	-	36.3
Würzburg DE	-	4289	2454	-	57.3	5897	2838	-	48.2	7506	3015	-	40.2
Davos CH	-	4857	3532	-	72.8	6654	3910	-	58.5	8483	4068	-	48.1
Athens GR	-	3343	2854	-	85.8	4573	3469	-	75.8	5834	3942	-	67.6
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f _{sol} =QL/Qd	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	Ta,ave	7.5	9.0	3.2	18.5								
	Tc,ave	8.5	10.0	5.4	17.8								
	± ΔTc	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
Ta,ave	°C	Annual average outdoor air temperature											
Tc,ave	°C	Annual average mains cold water temp.											
ΔTc	K	Seasonal variation of Tc											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		600		kPa		Max. operating press. - tank side		600		kPa			
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd											
Website		www.tuv.com											
Test report id. number		154150039_EN_Linuo_System_LPPCA58-1810_Report_zhao; 154150039_EN_Linuo_System_LPPCA58-1815_Report_zhao											
Date of test report		2016-11-08											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LPPCA58-1810-30-A		LPPCA58-1812-30-A		LPPCA58-1815-30-A		LPPCA58-1820-30-A		LPPCA58-1825-30-A				
R1810-58-75	1												
R1812-58-75			1										
R1815-58-75				1									
R1820-58-75					1								
R1825-58-75							1						
R1830-58-75									1				
Name of system configuration						LPPCA58-1815-30-AR							
Collector name		R1815-58-75		No. Collectors		1		Storage name		LPPCA58-1815-30-AR			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff 110 l				Daily drawoff 140 l				Daily drawoff 170 l			
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol
	MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%
Stockholm SE	-	6150	3062	-	49.9	7821	3406	-	43.7	9492	3564	-	37.7
Würzburg DE	-	5897	3154	-	53.8	7506	4226	-	56.2	9114	3816	-	41.8
Davos CH	-	6654	4510	-	67.9	8483	-	-	-	10281	5140	-	50.0
Athens GR	-	4573	-	-	-	5834	4415	-	75.8	7064	4888	-	69.2
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f _{sol} =Q _L /Q _d	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	T _{a,ave}	7.5	9.0	3.2	18.5								
	T _{c,ave}	8.5	10.0	5.4	17.8								
	± ΔT _c	6.4	3.0	0.8	7.4								
G	kWh/m ²	Annual irradiation South, 45°											
T _{a,ave}	°C	Annual average outdoor air temperature											
T _{c,ave}	°C	Annual average mains cold water temp.											
ΔT _c	K	Seasonal variation of T _c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		600		kPa		Max. operating press. - tank side		600		kPa			
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd											
Website		www.tuv.com											
Test report id. number		154150039_EN_Linuo_System_LPPCA58-1810_Report_zhao; 154150039_EN_Linuo_System_LPPCA58-1815_Report_zhao											
Date of test report		2016-11-08											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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DIN CERTCO • Alboinstraße 56 • 12103 Berlin

Tel: +49 30 7562-1131 • Fax: +49 30 7562-1141 • E-Mail: info@dincertco.de • www.dincertco.de



Summary of		EN12976-2		test results		Certification No.		011-7S2715 A					
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Company		Linuo Ritter International Co., Ltd.				Country		China					
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Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LPPCA58-1810-30-A		LPPCA58-1812-30-A		LPPCA58-1815-30-A		LPPCA58-1820-30-A		LPPCA58-1825-30-A				
R1810-58-75	1												
R1812-58-75			1										
R1815-58-75				1									
R1820-58-75					1								
R1825-58-75							1						
R1830-58-75									1				
Name of system configuration						LPPCA58-1820-30-AR							
Collector name		R1820-58-75		No. Collectors		1		Storage name		LPPCA58-1820-30-AR			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff 110 l				Daily drawoff 140 l				Daily drawoff 170 l			
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol
		MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%
Stockholm SE	-	6150	3248	-	52.7	7821	3721	-	47.7	9492	4037	-	42.4
Würzburg DE	-	5897	3311	-	56.0	7506	3847	-	51.5	9114	4226	-	46.6
Davos CH	-	6654	4793	-	72.0	8483	5487	-	64.7	10281	5834	-	56.7
Athens GR	-	4573	3942	-	85.9	5834	4699	-	80.5	7064	5267	-	74.6
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f _{sol} =Q _L /Q _d	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	T _{a,ave}	7.5	9.0	3.2	18.5								
	T _{c,ave}	8.5	10.0	5.4	17.8								
	± ΔT _c	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
T _{a,ave}	°C	Annual average outdoor air temperature											
T _{c,ave}	°C	Annual average mains cold water temp.											
ΔT _c	K	Seasonal variation of T _c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		600		kPa		Max. operating press. - tank side		600		kPa			
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd											
Website		www.tuv.com											
Test report id. number		154150039_EN_Linuo_System_LPPCA58-1810_Report_zhao; 154150039_EN_Linuo_System_LPPCA58-1815_Report_zhao											
Date of test report		2016-11-08											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

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System family overview													
Collector name		For each storage and collector size, give number of collectors											
		LPPCA58-1810-30-A	LPPCA58-1812-30-A	LPPCA58-1815-30-A	LPPCA58-1820-30-A	LPPCA58-1825-30-A	LPPCA58-1830-30-A						
R1810-58-75		1											
R1812-58-75			1										
R1815-58-75				1									
R1820-58-75					1								
R1825-58-75							1						
R1830-58-75									1				
Name of system configuration						LPPCA58-1825-30-AR							
Collector name		R1825-58-75		No. Collectors		1		Storage name		LPPCA58-1825-30-AR			
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff 140 l				Daily drawoff 170 l				Daily drawoff 200 l			
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol
		MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%
Stockholm SE	-	7821	3974	-	50.8	9492	4415	-	46.6	11164	4699	-	42.1
Würzburg DE	-	7506	4068	-	54.3	9114	4604	-	50.5	10691	4951	-	46.3
Davos CH	-	8483	5897	-	69.4	10281	6496	-	63.2	12110	6843	-	56.5
Athens GR	-	5834	4888	-	84.1	7064	5613	-	79.5	8326	6181	-	74.5
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
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f _{sol} =QL/Q _d	-	Solar fraction											
Ref. conditions			Stockholm SE	Würzburg DE	Davos CH	Athens GR							
		G	1 157	1 230	1 684	1 736							
		T _{a,ave}	7.5	9.0	3.2	18.5							
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		± ΔT _c	6.4	3.0	0.8	7.4							
G	kWh/m²	Annual irradiation South, 45°											
T _{a,ave}	°C	Annual average outdoor air temperature											
T _{c,ave}	°C	Annual average mains cold water temp.											
ΔT _c	K	Seasonal variation of T _c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side				600 kPa		Max. operating press. - tank side				600 kPa			
Testing Laboratory				TUV Rheinland (Shanghai) Co., Ltd									
Website				www.tuv.com									
Test report id. number				154150039_EN_Linuo_System_LPPCA58-1810_Report_zhao; 154150039_EN_Linuo_System_LPPCA58-1815_Report_zhao									
Date of test report				2016-11-08									
Test method				ISO 9459-5 (DST)									
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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Brand (optional)		Linuo Paradigma				Website		www.linuo-ritter-international.com					
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Postal Code		250103		Jinan, Shandong		Tel. / Fax		+86 0531-88729923/9920					
System family overview													
For each storage and collector size, give number of collectors													
Collector name	LPPCA58-1810-30-A	LPPCA58-1812-30-A	LPPCA58-1815-30-A	LPPCA58-1820-30-A	LPPCA58-1825-30-A	LPPCA58-1830-30-A							
R1810-58-75	1												
R1812-58-75		1											
R1815-58-75			1										
R1820-58-75				1									
R1825-58-75					1								
R1830-58-75						1							
Name of system configuration						LPPCA58-1830-30-AR							
Collector name		R1830-58-75		No. Collectors		1		Storage name		LPPCA58-1830-30-AR			
Calculated annual results for "solar-only / preheat system"													
Location	Q_{d,sh} MJ/y	Daily drawoff 140 l				Daily drawoff 170 l				Daily drawoff 200 l			
		Q_{d,hw} MJ/y	Q_L MJ/y	Q_{par} MJ/y	f_{sol} %	Q_{d,hw} MJ/y	Q_L MJ/y	Q_{par} MJ/y	f_{sol} %	Q_{d,hw} MJ/y	Q_L MJ/y	Q_{par} MJ/y	f_{sol} %
Stockholm SE	-	7821	4037	-	51.7	9492	4573	-	48.3	11164	4983	-	44.7
Würzburg DE	-	7506	4100	-	54.7	9114	4730	-	51.9	10691	5203	-	48.6
Davos CH	-	8483	5960	-	70.3	10281	6749	-	65.6	12110	7285	-	60.2
Athens GR	-	5834	4951	-	85.0	7064	5771	-	81.5	8326	6433	-	77.5
Perf. indicators for the table above													
Q _{d,sh}	MJ/y	Not relevant for solar domestic hot water system											
Q _d	MJ/y	Annual heat demand for domestic hot water											
Q _L	MJ/y	Annual heat energy delivered by the solar system											
Q _{par}	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f _{sol} =Q _L /Q _d	-	Solar fraction											
Ref. conditions		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1 157	1 230	1 684	1 736								
	T _{a,ave}	7.5	9.0	3.2	18.5								
	T _{c,ave}	8.5	10.0	5.4	17.8								
	± ΔT _c	6.4	3.0	0.8	7.4								
G	kWh/m²	Annual irradiation South, 45°											
T _{a,ave}	°C	Annual average outdoor air temperature											
T _{c,ave}	°C	Annual average mains cold water temp.											
ΔT _c	K	Seasonal variation of T _c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		600		kPa		Max. operating press. - tank side		600		kPa			
Testing Laboratory		TUV Rheinland (Shanghai) Co., Ltd											
Website		www.tuv.com											
Test report id. number		154150039_EN_Linuo_System_LPPCA58-1810_Report_zhao; 154150039_EN_Linuo_System_LPPCA58-1815_Report_zhao											
Date of test report		2016-11-08											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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DIN CERTCO • Alboinstraße 56 • 12103 Berlin

Tel: +49 30 7562-1131 • Fax: +49 30 7562-1141 • E-Mail: info@dincertco.de • www.dincertco.de