




Summary of		EN12976-2	SOLAR SYSTEM test results		Licence Number		011-7S2655 A					
Annex to Solar KEYMARK Certificate					Issued		8/11/2016					
Company		Jiaxing JinYi Solar Energy Technology Co., Ltd.			Country		China					
Brand (optional)		Jinyi			Website		www.jinyi-solar.com					
Street		Caozhuang Industrial Park, Yuxin Town			E-mail		info@jinyi-solar.com					
Postal Code		314022	Jiaxing, Zhejiang		Tel. / Fax		+86	(573) 8284 8871				
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					Int. collector-store							
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 pre-heat							
Collector(s)					Heat store(s)							
Company		Jiaxing JinYi Solar Energy			Company		Jiaxing JinYi Solar Energy					
Keymark lic.no. if available		SP SC0010-14			Keymark lic.no. if available		NA					
Collector name		Per module			Store name		Total nominal volume	Gross height	Gross width	Gross depth	Auxiliary heated volume	Electrical aux. heating power
		Gross Area (Ag)	Gross length	Gross width								
		m ²	mm	mm								
JMC-5818-15		2.15	1875	1145	JPH-15		128	1394	465	465	0	0.0
JMC-5818-18		2.72	1875	1448	JPH-18		150	1637	465	465	0	0.0
JMC-5818-20		3.01	1875	1607	JPH-20		169	1795	465	465	0	0.0
JMC-5818-24		3.61	1875	1925	JPH-24		197	2120	465	465	0	0.0
JMC-5818-30		4.51	1875	2404	JPH-30		243	2598	465	465	0	0.0
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												
Collector name		Number of collectors in each configuration for each store										
		Store name										
		JPH-15	JPH-18	JPH-20	JPH-24	JPH-30						
JMC-5818-15		1										
JMC-5818-18			1									
JMC-5818-20				1								
JMC-5818-24						1						
JMC-5818-30									1			
Testing Laboratory					TUV Rheinland (Shanghai) Co., Ltd							
Website					www.tuv.com							
Test report id. number					154124976a_EN_JinYi_System_Report_JPH-15_zhao; 154124976a_EN_JinYi_System_Report_JPH-18_zhao							
Date of test report					2016-05-25							
Comments of test lab												
												



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Postal Code		314022	Jiaxing, Zhejiang		Tel. / Fax		+86 (573) 8284 8871						
System family overview													
For each storage and collector size, give number of collectors													
Collector name	JPH-15	JPH-18	JPH-20	JPH-24	JPH-30								
JMC-5818-15	1												
JMC-5818-18		1											
JMC-5818-20			1										
JMC-5818-24				1									
JMC-5818-30					1								
Name of system configuration					JPH-18								
Collector name	JPH-18	No. Collectors	1		Storage name	JPH-18							
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh MJ/y	Daily drawoff 140 l				Daily drawoff 170 l				Daily drawoff 200 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	-	7821	3532	-	45.4	9492	3879	-	40.9	11164	4068	-	36.5
Würzburg DE	-	7506	4226	-	56.2	9114	4100	-	45.0	10691	4320	-	40.4
Davos CH	-	8483	-	-	-	10281	5582	-	54.3	12110	5803	-	48.0
Athens GR	-	5834	4573	-	78.3	7064	5172	-	73.3	8326	5675	-	68.3
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/m ²	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											
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Date of test report		2016-05-25											
Test method		ISO 9459-5 (DST)											
Comments of test lab													

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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