


光伏电线规格 PV Cable Specification

导体与线材结构 Construction and properties					
导体结构参考表1 The construction of wire shall be complied with following and table 1.					
					
1).导体 Conductor		镀锡退火软铜绞线 Soft annealed stranded tin-plated copper			
2).绝缘 Insulation		交联聚烯烃 Electron beam cross-linked material(XLPE)			
3).护套 Jacket		交联聚烯烃/Electron beam cross-linked material(XLPE)			
4).参考标准 Applicable Standard		EN50618			
5).印字标识 Identification Mark		TÜV EN50618:2014 H1Z2Z2-K 1X**mm ²			
6).成品电缆耐电压 Voltage test of finished cable		AC 6.5KV 5min,or DC 15KV 5min 不击穿 No break			
导体与线材结构 Construction and Properties		表1/Table1			
导体 Conductor			护套 Jacket		导体电阻 Conductor Resistance
面积 Area.(mm ²)	结构 Construction(mm)	绞线外径 Stranded OD(mm)	外径 Diameter(m m)	颜色 Color	Max. (Ω/KM) (at 20℃)
1.5	30/0.25 (max.0.26)	1.58	4.80±0.25	黑/红/蓝 Black Red Blue	13.7
2.5	49/0.25 (max.0.26)	2.05	4.95±0.25		8.21
4	56/0.30 (max.0.31)	2.59	6.10±0.30		5.09
6	84/0.30 (max.0.31)	3.42	7.00±0.30		3.39
10	77/0.40 (max.0.41)	4.56	7.20±0.30		1.95
额定电压/Rating voltage		V	1500VDC		
允许使用温度/Permissible temperature		℃	-40~+120		
短路电流温度/Short circuit temperature		℃	+200(at the conductor max.5sec)		
物理性能/Mechanical Characteristics					
热寿命/Highly heat resistant:		-40℃...+90℃ (> 150 hours)			
		-40℃...+105℃ (> 150 hours)			
		-40℃...+120℃ (> 150 hours)			
使用寿命/Expected usable life:>25 years					
6).环保要求符合RoHS/Environmental Data:RoHS-conform					

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3).护套 Jacket		交联聚烯烃/Electron beam cross-linked material(XLPE)			
4).参考标准 Applicable Standard		2PFG 1169/08.2007			
5).印字标识 Identification Mark		 2 PFG 1169 PV1-F 1X**mm ² NSPV NewSun PV Technology Co., Ltd			
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10	84/0.40 (max.0.41)	4.56	9.00±0.30		1.95
16	128/0.40 (max.0.41)	5.60	10.30±0.30		1.24
25	192/0.40 (max.0.41)	7.25	12.20±0.40		0.795
35	276/0.40 (max.0.41)	8.74	13.80±0.40		0.565
额定电压/Rating voltage			V	DC1000	
允许使用温度/Permissible temperature			℃	-40~+120	
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