

### 1. Electrical Characteristics

#### 1.1 Electrical Performance at Standard Test Conditions(\*STC)

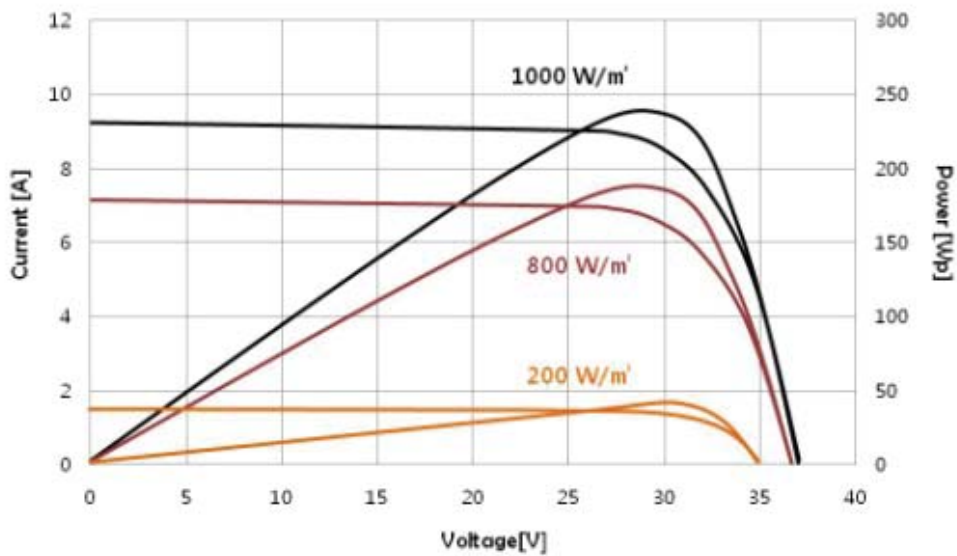
60Cells Panel Description		Karra-250	Karra-255	Karra-260	Karra-265	Karra-270
Item	Unit					
Max. Power (Pmax)	Wp	250	255	260	265	270
Max. Power voltage (Vmp)	V	30.0	30.2	30.4	30.8	31.2
Max. Power current (Imp)	A	8.3	8.4	8.6	8.6	8.65
Open circuit voltage (Voc)	V	37.7	37.9	38.1	38.3	38.5
Short circuit current (Isc)	A	8.8	8.8	8.9	8.9	8.95
Power tolerance	%	±3				

\*STC(Standard Test Condition) : 1,000W/m<sup>2</sup>, AM 1.5, 25°C

#### 1.2 Thermal Characteristics

Rating		Unit	Value
Cell Temperature Coefficient	Isc	%/°C	+ 0.059
	Voc	%/°C	- 0.300
	Pmax	%/°C	- 0.342

#### 1.3 Dependence of Irradiance



## 2. Mechanical Characteristics

Cells per Panel	60 Cells (6 x 10)
Cell Type	156x156 mm Multi-crystalline
Panel Dimension (L x W x H)	1,667 x 1,000 x 40 mm
Panel Weight	18.5 Kg (without inverter / 2.3 Kg)
Front Glass	3.2 mm Tempered Glass
Back Sheet	DuPont Tedlar film-based
Junction Box	Rated Current 14A / Rated Voltage 1000V(IEC) / IP65
Frame	Anodized Aluminum (Silver or Black)
Output cable	(+,-) 600mm / 4mm <sup>2</sup> cable MC4 (PV-KST4/6I, PV-KBT4/6I)
Edge seal & J-box Sealant	Dow Corning



## 3. Qualification Tests

Temp cycling range	-40°C to 85°C for 200cycles
Damp heat test	85°C and 85% relative humidity for 1000hr
Front load test	5400 Pa (Snow)
Rear static load test	2400 Pa (Wind)
Hailstone impact test	25mm hail at 23m/s from 1m distance

**4. Safety ratings & Warranties**

Safety application class	Class A
Fire Safety Classification	Class C
Certifications	IEC 61215, IEC 61730
Warranty	10 years limited product warranty
Performance guarantee	25 years limited warranty 80% power

**5. Characteristics for System Design**

Temperature range	-40°C to 85°C
Maximum system voltage	1,000V DC(IEC)
Maximum over-current protection	25 A

**6. Contact**

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7. Panel Drawing

