



System Integration Parameters	
Maximum system Voltage(IEC)	1,000 VDC
Maximum system Voltage(UL)	600 VDC
Maximum series fuse rating	15A
Maximum reverse current	Do not apply external voltages larger than Voc to the module

Safety Ratings & Warranties	
Fire Safety Classification	1,000 VDC
Certifications	600 VDC
Warranty	15A
Performance Guarantee	10 years limited warranty of 90% power output
	25 years limited warranty of 80% power output

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

Item	unit	NP3- □ □ □ M1 Series											
		250	245	240	235	230	225	220	215	210	205	200	
	Wp	250	245	240	235	230	225	217.8	215	210	205	200	
Open circuit voltage(Voc)	V	37.6	37.5	37.4	37.2	37.0	36.7	36.5	33.6	33.5	33.4	33.3	
Short circuit current(Isc)	A	8.59	8.57	8.54	8.51	8.44	8.33	8.22	8.51	8.46	8.36	8.30	
Maximum power voltage(Vpm)	V	30.9	30.6	30.3	29.8	29.5	29.1	28.5	27.2	26.8	26.3	25.9	
Max power current(Ipm)	A	8.09	8.01	7.93	7.88	7.80	7.73	7.65	7.90	7.85	7.79	7.71	
Number of cell	pcs	60	60	60	60	60	60	60	54	54	54	54	
Module efficiency	%	15.5	15.2	14.9	14.5	14.2	15.4	14.94	14.7	14.4	14.1	13.7	
Module size	mm	1640 x 985 x 35						1480 x 985 x 35					
Temperature coefficient of Pmax	%/°C	-0.40											
Temperature coefficient of Isc	%/°C	0.05											
Temperature coefficient of Voc	%/°C	-0.34											
Maximul system voltage	Vdc	1000											
Cell type	-	3bus-bar single-crystalline											

Physical characteristics (TUV)	
Type	Corner-key
Cells per module	60 / 54
Cell type	Mono/Multi - crystalline silicon
Module dimension	1640 X 985 X 35T mm / 1480 X 985 X 35T mm
Front Glass	3.2T tempered glass
Weight	18kg
Junction Box	IP65 / YJB16

Temperature coefficients	
NOCT	45 ± 2 °C
TC Isc	-0.025%/K
TC Voc	-0.341%/K
TC Pmax	-0.519%/K

Packing Configuration	
Container	40'HC
Piece per Pallet	25
Pallets per container	24