I －1. Scope

This data sheet describes the complementary information for the NA-851WP module. (The items shown here are not items guaranteed).

I －2. Mass

The typical mass of the module is 18 kg.

I －3. Electrical characteristics

The electrical characteristics of the module under standard test conditions is shown in the following table (Table I - 1 and Table I - 2).

Table I - 1. Electrical characteristics (Initial value)

Characteristics	Symbol	Value	Max.	Min.	Unit
Open-circuit voltage	Voc	65.0	68.3	61.8	V
Short-circuit current	Isc	2.20	----	----	A
Maximum power voltage	Vpm	52.0	54.6	49.4	V
Maximum power current	Ipm	1.92	----	----	A
Maximum power	Pm	100	110	90.0	W

Table I - 2. Electrical characteristics (Nominal value*)

Characteristics	Symbol	Value	Max.	Min.	Unit
Open-circuit voltage	Voc	63.8	67.0	60.6	V
Short-circuit current	Isc	2.11	----	----	A
Maximum power voltage	Vpm	49.0	51.5	46.6	V
Maximum power current	Ipm	1.74	----	----	A
Maximum power	Pm	85	93.5	76.5	W

*Nominal values are calculated performance from the Table I-1 initial values using data of accelerated light irradiation testing on the coupon modules. The test condition is 1,000 hours continuous irradiation, AM1.5 spectrum, 1kW/m^2 light intensity.

These values represent approximate average values in the seasonal performance change mode shown as Fig.1 and also are subject to the installation environment and regional climate such as sun light irradiation level, temperature and so on.

After installing these modules outdoors, the power changes from the initial value and vary with seasons approximately centering on these nominal value

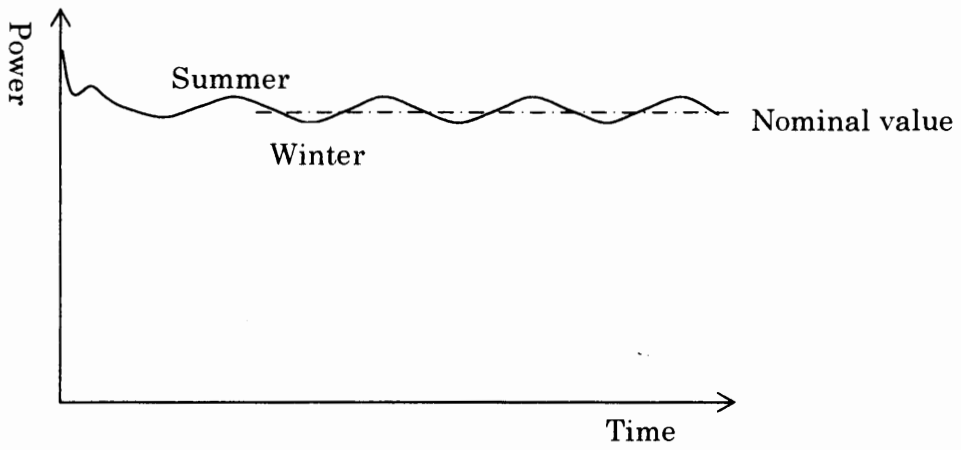

Fig. I -1 Conceptual figure showing nominal and seasonal adjustments

The electric output characteristics of the module under condition other than the standard test condition are shown below.

(1) Short-circuit current, Open-circuit voltage vs. Irradiance (Fig. I - 2)

(2) Short-circuit current, Open-circuit voltage, Maximum power vs. Temperature of module (Fig. I - 3)

(3) Temperature coefficient; When based on the characteristic of 25 ℃, the coefficient of the maximum power voltage, the maximum power current and the maximum power is shown in table I-3.