



# AP-NB20W

HIGH EFFICIENCY POLYCRYSTALLINE PHOTOVOLTAIC MODULE



FRONT



BACKGROUND

## ■ HIGHLIGHTS OF ALPS PHOTOVOLTAIC MODULES

- » 20 Year / 80% Warrantee.
- » Heavy Industrial Frame.
- » Compact Package - High Efficiency > 14%.

## ■ APPLICATIONS

### Grid-Connected Systems

- » Residential Solar Power Systems
- » Public and Industrial Solar Power Systems

### Stand-Alone Solar Power Systems for

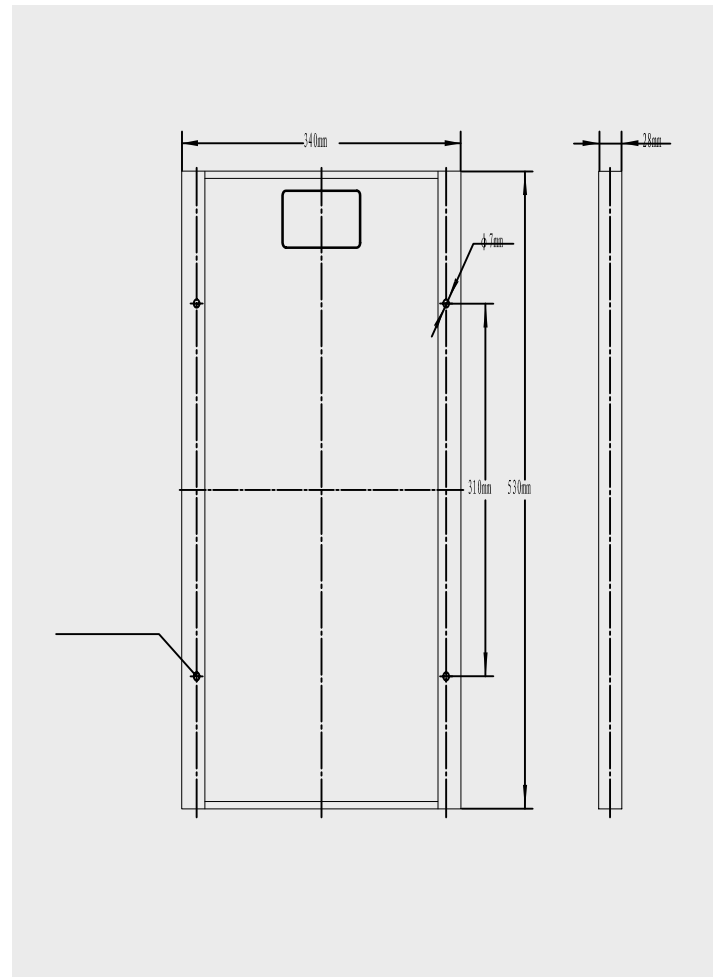
- » Villages in remote areas
- » Homes and summer cottages
- » Microwave / Radio repeater stations
- » Medical facilities in rural areas
- » Emergency communication
- » Water quality and environmental data monitoring
- » Drinking water and livestock water pumping
- » Small-scale irrigation pumping
- » Cathodic protection
- » Aviation obstruction lights
- » Environmental data monitoring
- » Railway signals
- » Street lighting
- » Small-scale desalination

## ■ LIMITED PERFORMANCE WARRANTY

- \* 2 years limited warranty on material and workmanship
- \* 20 years limited warranty on power output.

## MODULE DISCRPTION

The Alps AP-NB20W module features poly-crystalline photovoltaic cell technology. The 36 square solar cells are encapsulated beneath high transmission tempered glass using an advanced, UV resistant thermal setting plastic. The encapsulant ethylene vinyl acetate (EVA) cushions the solar cells within the laminate and ensures the operating characteristics of the solar cells under virtually any climatic conditions. The rear surface of the module is completely sealed from moisture and mechanical damage by a continuous high strength polymer sheet. The glass/tecllar construction of the module minimizes weight while providing a durable, protective environment for the solar cells. The Alps AP-NB20W is available as a complete module or a laminate.



## DATA SHEET

Electrival Data		
Maximum Power(Pmax)	[ W ]	20
Tolerance	[ % ]	+10/-10
Maximum Power Voltage	[ V ]	17.4
Maximum Power Current	[ A ]	1.41
Open Circuit Voltage (Voc)	[ V ]	21.6
Short Circuit Current (Isc)	[ A ]	1.15
Temp. coefficient of Voc	[ V/°C ]	-0.37x10 <sup>-2</sup>
Temp. coefficient of Isc	[ A/°C ]	0.08x10 <sup>-2</sup>
NOCT	[ °C ]	47
Max System Voltage	[ V ]	600

Dimension		
Length	[mm]	530
Width	[mm]	340
Depth without box	[mm]	28
Weight	[kg]	2.5

Cells	
Number per module	36
Cell Technology	Polycrystalline
Cell Shape	Rectangular
Temperature Coefficient Power Pmax/°C	-0.44%

## Contact us

### Alps Technology Inc.

- » ADD: 3930-B Valley Blvd. Walnut, CA 91789
- » Phone: 800.766.9618
- » Fax: 909.468 9880