

## Solar Ice Systems

Boreal Light GmbH introduces its latest innovation – the **Hybrid Solar-Powered Ice Machine**, designed to provide sustainable and cost-effective ice production in various settings. This cutting-edge solution operates primarily on solar energy but also features a hybrid system that allows operation during nighttime and cloudy conditions, ensuring uninterrupted ice production.



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# SUSTAINABLE SOLAR ICE PRODUCTION



BOREAL  
COOLTECH

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# Specifications

Type	Output (kg/24h)	Consumption (Watt)	Voltage (V/Hz)	Weight (kg)
SIS 120	120	620	230/50	58
SIS 200	200	940	230/50	95
SIS 400	400	1800	400/50	110
SIS 800	800	2800	400/50	220
SIS 1500	1500	4800	400/50	360
SIS 2200	2200	6800	400/50	460
SIS 3000	3000	8500	400/50	490
SIS 4500	4500	12000	400/50	750
SIS 6000	6000	16000	400/50	980



# Applications

**Fishing Industry:** Keeps catch fresh without dependence on diesel generators.



**Hospitality & Tourism:** Provides a sustainable ice supply for lodges, resorts, and eco-tourism operations.



**Agriculture & Food Preservation:** Extends the shelf life of perishable goods in remote farming areas, warehouses and stores.



# Key Features for the SIS 6000

(Producing 6000 kgs of ice per day)

Power Supply	Hybrid (Solar/AC)
Ambient Temperature	Default design temperature: 30°C, Higher temperatures possible
Installation Type	Aluminium skid on wheels
Water intake	Freshwater, Seawater
Compressor type	Semi-hermetic reciprocating compressor with air cooled condenser
Refrigerant	R134a, R404A, R449A
Cooling Power	30 kW
Power consumption	16 kW
Control Panel	Weidmüller SPS 24 V control system, with optional 7" PLC
Battery	50 Ah Li-ion (24 V)
Optional:	<ul style="list-style-type: none"><li>• <b>Containerized System:</b> Customized 20 ft container, plug-and-play</li><li>• <b>Remote monitoring:</b> System status, problem report, remote start/stop, timer, etc.</li><li>• <b>Pre-water cooling:</b> Water chiller for pre-water cooling to 2°C</li><li>• <b>UV-water disinfection:</b> Water disinfection applying a dose &gt;400 J/m²</li></ul>