

Volt[•]

LODGE

SPECIFICATIONS SHEET

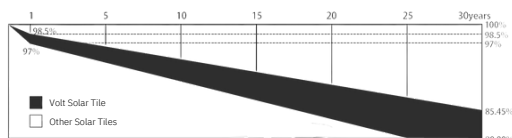
Volt is the world's most advanced solar tile. Employing MWT technology and an industry-leading, material-efficient design resulting in lower thermal mass, enabling cooler operation and enhanced efficiency.

Volt reaches an incredible 19.5% efficiency. With its durable and weather-resistant design, aluminium frame and toughened glass, Volt is built to withstand the harshest environments.

30 YEAR
PERFORMANCE
WARRANTY

15 YEAR
PRODUCT
WARRANTY

LONG-LASTING RELIABILITY



105W

MWT MONO PERC MODULE
19.5% MODULE EFFICIENCY

✓ HIGH EFFICIENCY

MWT technology increases cell conversion efficiency, delivering higher power output in lower irradiance conditions.

✓ MECHANICALLY STRONG

Volt's low profile design naturally resists snow loading and wind loading conditions.

✓ LOW MAINTENANCE

Volt's direct integration into the roof eliminates the buildup of debris and the need for cable maintenance compared to conventional modules.

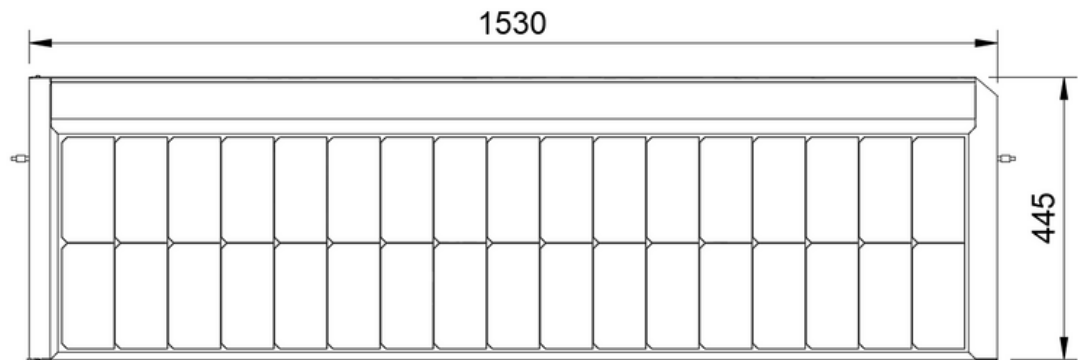
✓ HIGHER RELIABILITY

The busbar and tapping ribbon-free design allows the tile to have a sleeker, seamless integration into the roof while increasing reliability.

✓ LEAD-FREE

Volt's eco-friendly design is entirely lead-free.

MODULE DIAGRAM



MODULE SPECIFICATIONS

	VOLT90LDG34	VOLT95LDG34	VOLT100LDG34	VOLT105LDG34
Peak Power Pmax	90W	95W	100W	105W
Rated Current Imp	10A	10.2A	10.57A	10.73A
Rated Voltage Vmp	9.2V	9.5V	9.6V	9.8V
Short-circuit Current Isc	10.9A	11A	11.1A	11.26A
Open-circuit voltage Voc	11.4V	11.5V	11.6V	11.7V
Module Efficiency	16.7%	17.6%	18.6%	19.5%
Power Tolerance	±3%	±3%	±3%	±3%
Maximum Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W

CONSTRUCTION MATERIALS

Front	3.2mm Low Iron Tempered Glass
Junction Box	IP65
Output Cables	4mm ² x 865mm
Connector	MC4 EVO2
Encapsulation	EVA (0.45+0.03mm thickness)
Backing	Black TPT (0.32+0.03mm thickness)

OPERATING CONDITIONS

Max. System Voltage SK II	1500 V
Max. System Fuse Rating (A)	15
Operating Temperature (°C)	-40~85
Max. Static Load, front (e.g. snow) Pa	2400 [^]
Max. Static Load, back (e.g. wind) Pa	2400 [^]

MECHANICAL CHARACTERISTICS

Cell Size (mm)	166 x 83
No. of cells	34
Module Size (mm)	1530 x 445 x 50.2
Module Weight (KG)	9.2
Fixing Method	Screwed at top. Interlock at nose (refer manual). This product must not be installed using clamps.
Fire Class Rating	UL 1703 Class C

TEMPERATURE COEFFICIENT

Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.06%/°C
NMOT	43°C (±2°C)

* Under Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C).
[^] With a Safety Factor of 1.5