



SMBB Technology



Anti-PID Guarantee

48HL4M-DB 450-475 Watt

Mechanical Characteristics	
Cell Type	N- type Monocrystalline Silicon
No. of cells	96 48 × 2
Dimensions	1762 × 1134 × 30 mm
Weight	24.0 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
	4.0 mm ² (+): 400 mm , (-): 200 mm or Customized Length

	450	455	460	465	475
Efficiency (%)	30.25	30.48	30.71	30.94	31.40
Weight (kg)	14.88	14.93	14.98	15.03	15.13
Length (mm)	36.06	36.23	36.40	36.57	36.91
Width (mm)	15.66	15.71	15.76	15.81	15.91
Area (mm ²)	22.52	22.77	23.02	23.27	23.77

Engineering Drawings

Standard Drawing Type

Electrical Performance

Power-Voltage Curves (48HL4M-DB 460W)

Current-Voltage Curves (48HL4M-DB 460W)