



Modules **PFV-Ex-70-12**
PFV-Ex-200-24
PFV-Ex-400-24

Ex II 2GD-Ex eb mb IIC T₁ Gb CML 25 ATEX3067X
Ex tb IIC T₁ °C Db - IP66 IECEx CML 25.0020X
Ta: -60°C +...60°C
EN IEC 60079-0:2018, EN IEC 60079-18:2015/A1:2017,
EN IEC 60079-7:2015/A1:2018, EN IEC 60079-31:2024



Higher Efficiency

Excellent module efficiency up to: 20.48%.



High Reliability

Superior craftsmanship, engineering excellence, and attention to the finest detail ensure longevity and optimal performance.



High Return on Investment

0.45% annual degradation. Higher maximum system voltage reduces BOS costs.



Extremely Environmental Testing

Remain peak performance in extreme environments. Class A fireproofing rating.



Strength and Durability

Certified for 5400Pa snow and 3600Pa loads test. Passed hail test with 35mm hail stones at 97 km/h.

Example Configuration: 2.4 kWp System

With the installation of six 400Wp photovoltaic panels, the system generates a total power of 2.4 kWp. This energy is sufficient to simultaneously power up to 12 Cortem FLOWEX-M...100200 series lighting fixtures.



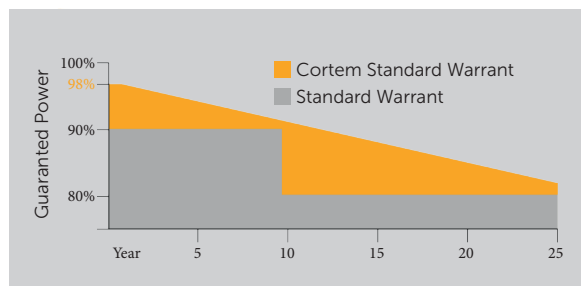
Solarex series standalone unit

SolarEx is a standalone energy storage system capable of powering a utility in areas at risk of explosion and fire classified as Zone 1.

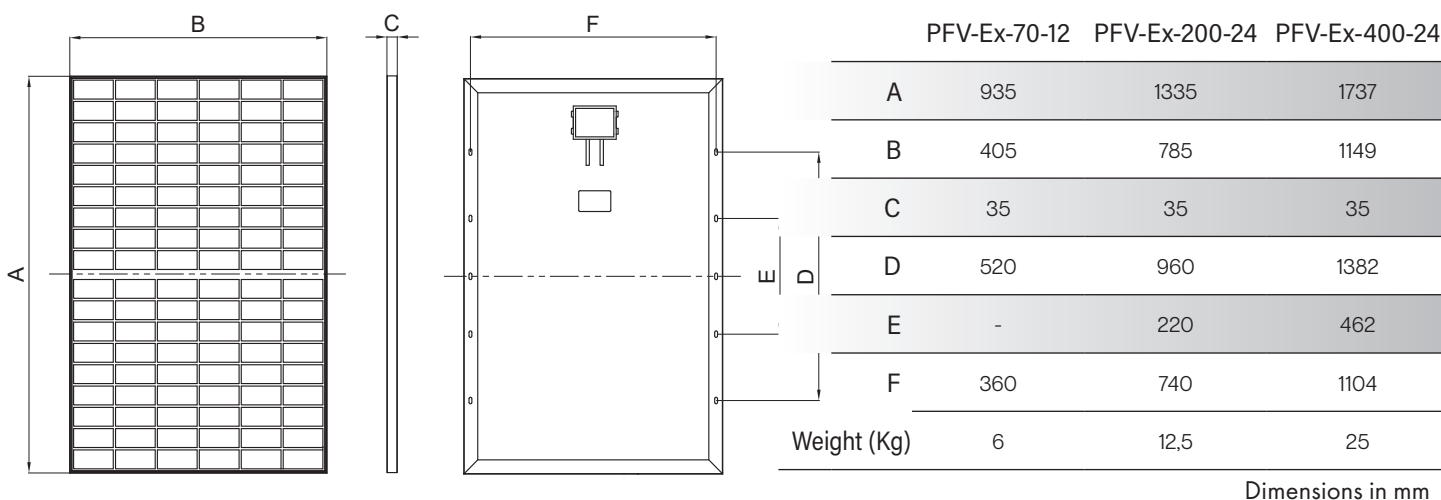
Technical specifications	Models	
	SOLAREx25	SOLAREx50
Lamp power	25 W	50 W
Hours of operation	8 h	8 h
Total load	200 Wh/day	400 Wh/day
Solar panel peak power	70 Wp	200 Wp
Battery capacity	32 Ah	85 Ah
Batteries rated voltage	24 Vdc	24 Vdc

Electric Quality

- Automated cell and module production lines ensure consistently high quality in every module.
- Each cell and module flash tested to ensure rated level of output.
- Lead-free solder protects health and the environment.



DIMENSIONAL DRAWINGS



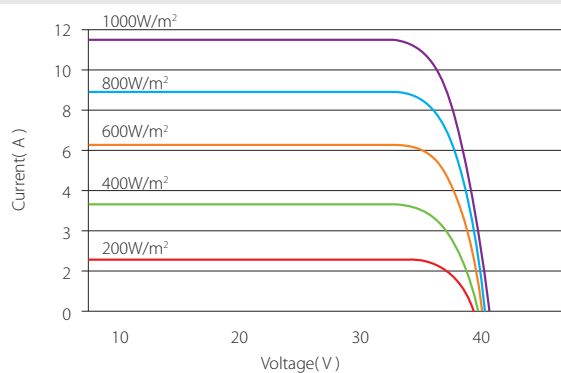
ELECTRICAL FEATURES

MODEL	PEAK WATTAGE	VOLTAGE OPEN CIRCUIT	CURRENT SHORT CIRCUIT	VOLTAGE MAX. POWER	CURRENT MAX. POWER	EFFICIENCY
PFV-Ex-70-12	70Wp	23,8V	3,77A	19,4V	3,61A	18,17%
PFV-Ex-200-24	200Wp	41,6V	6,09A	34,2V	5,85A	20,17%
PFV-Ex-400-24	400Wp	41,4V	12,08A	34,5V	11,59A	20,48%

TEMPERATURE CLASS

MODEL	AMBIENT TEMPERATURE		
	+40°C	+50°C	+60°C
PFV-Ex-70-12	T6 / T71°C	T6 / T81°C	T5 / T91°C
PFV-Ex-200-24	T6 / T71°C	T6 / T81°C	T5 / T91°C
PFV-Ex-400-24	T6 / T71°C	T6 / T81°C	T5 / T91°C

I-V CURVE



MECHANICAL CHARACTERISTICS

- Solar cell:** Mono-crystalline
- Glass:** 3,2mm, coated tempered glass
- Frame:** Perimeter cover in stainless steel increase the strength-en from accidental impacts or shocks
- Diode box:** Plastic box IP66 with encapsulated diode and two cable exits.
- Length cables:** 1 meter
- Cable section:** 4 sqmm

MODEL	Number of cells
PFV-Ex-70-12	36
PFV-Ex-200-24	54
PFV-Ex-400-24	108

