

Inverter-Charger, Cable and Breaker Sizing

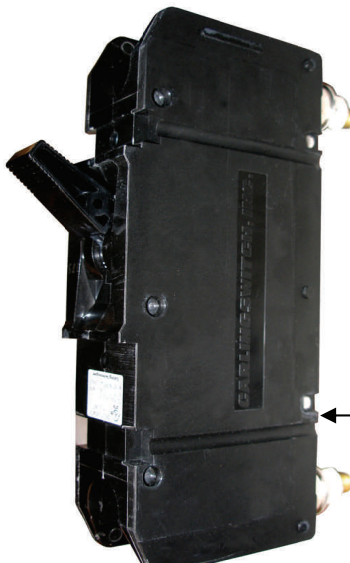
Always make provisions in your Inverter Charger Install to fit the correct size cabling and a DC Rated Disconnect Switch. The Disconnect Breaker is sized to protect the cabling installed. Remember even a small battery bank has an enormous amount of energy stored inside and can easily cause cabling to melt and cause serious damage and injury and is a certain fire hazard. Alternative to a Correct DC Breaker is a Dc T Class fuse .

PS. High Voltage 3 Phase AC Fusing is not suitable but often fitted by Cowboy Installers

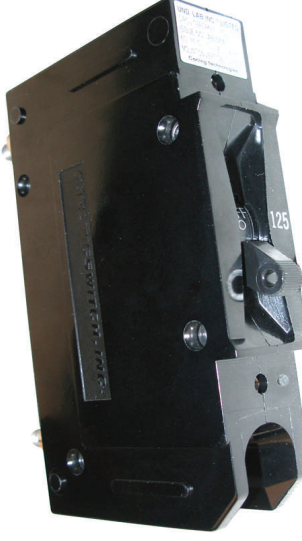
Model	Continuous Power Watts	30 Min Power Rating Watts	Nominal Battery Volts	Cable Size MM2	Breaker Size Amps
GVFX1512E	1500w	1800w	12v	50 mm2	175a
GVFX1624E	1600w	2000w	24v	35mm2	125a
GVFX1648E	1600w	2000w	48v	35mm2	125a
VFX2612E	2600w	3100w	12v	70mm2	250a
VFX3024E	3000w	3300w	24v	70mm2	250a
VFX3048E	3000w	3300w	48v	50mm2	175a
FX2012ET	2000w	2500w	12v	70mm2	250a
FX2024ET	2000w	3100w	24v	50mm2	175a
FX2300ET	2300w	3100w	48v	35mm2	125a

For Inverter Battery Cables above 1.5m in length move up one cable size !

DC Breakers are installed Primarily to Protect the Cables but also act as a Disconnect !



Description: 100a or 125amp 125VDC Panel Mount
Switch Size ¼ studs 1" thick 5" tall 4" deep
Weight 1 Lb/s



Main Inverter to Battery DC Rated Breakers are large heavy duty units . They are expensive but are essential in any well designed and safe Off Grid Power Board Install !

Description: 175a or 250 amp 125VDC Panel Mount
Switch Size 3/8" studs 1.5" thick 7" tall 6" wide
Weight 2 Lb/s

If your Designer and or Installer doesnt stipulate DC Breakers then change The Designer and Installer ! Your life may depend on it !
www.prismsolar.co.uk