



LOT ROT AVOIDANCE KIT - RUGGED SOLAR TRICKLE CHARGER

MERLIN® PATENTED DESIGN, MILITARY GRADE, SOLAR SOLUTIONS OPTIMIZED FOR TRUCKS

MERLIN® TECHNOLOGY

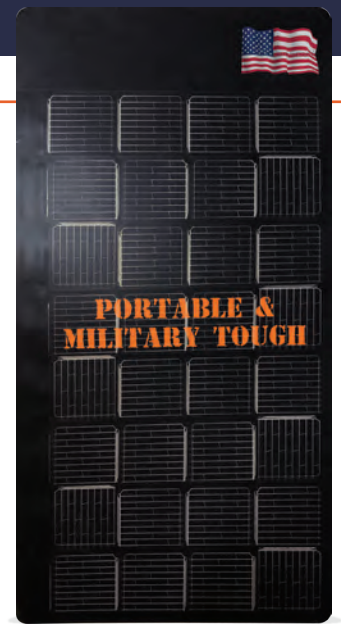
Industry leading power output | Enhanced performance under all light conditions | Designed and engineered in USA | Outstanding aesthetics | Redundancy by design | Robust module integrity and performance under extreme conditions | Military grade design, materials and approvals

SYSTEM OVERVIEW

Maintain 12V primary or auxiliary batteries | Charge through heavy duty 9-pin OBDII port | Operational even when the kill switch is engaged | Easy to deploy & remove portable flexible panels | Built-in charge controller with temperature compensation circuitry | Easy to store when not in use | Built-in diodes in the solar panel to handle shading.

CUSTOMER BENEFITS

Trickle charges the primary/aux battery to accommodate parasitic loads | Prevents battery drainage as new trucks are delivered to dealerships | Eliminates "lot rot" at dealerships | Minimizes typical battery warranty issues | Reduces jump start requirements | Easily moved from truck to truck



MERLIN® GRID PATENTED TECHNOLOGY: FLEXIBLE – RUGGED – LIGHTWEIGHT – MONO cSi



80% Lighter
than Glass Panels



50X More Durable
vs. Bus-Bar Technology



20% More Energy
In Real World Conditions



2.5X Power Density
vs. Thin Film Technology





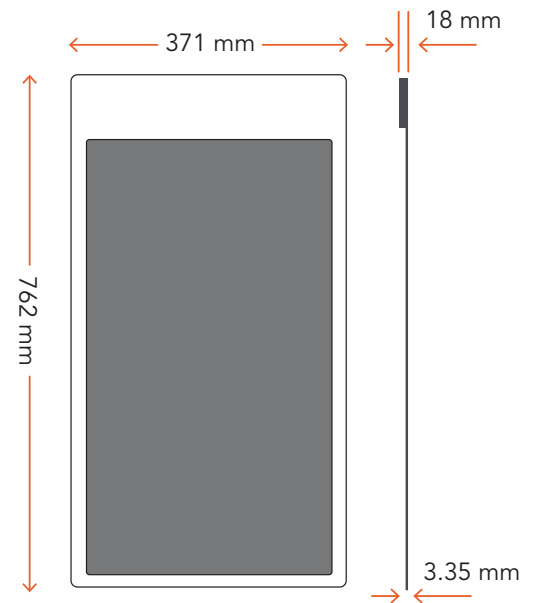
TECHNICAL SPECS

MERLIN® PV Module Specs ¹	Unit	32R
Cell Type Mono		Mono
Number of Cells		32
Rated Power (P Max)	W	36
Voltage at Pmax (Vmp)	V	17.01
Current at Pmax (Imp)	A	2.11
Open Circuit Voltage (Voc)	V	20.46
Short Circuit Current (Isc)	A	2.18
Active Area Efficiency	%	18.4
Temperature Co-efficient of Isc	%/°C	0.05
Temperature Co-efficient of Voc	%/°C	-0.33
Temperature Co-efficient of Pmax	%/°C	-0.42
Operating Temperature	°C	-40 to +85
Charge Controller Key Specs		
Maximum output current	A	2.2
Absorption charge set point	V	14.2 +/- 0.2
Floating set point	V	13.3 +/- 0.2
Output voltage when not plugged	V	0

1. STC standard test conditions: 1000W/m² intensity, Air Mass 1.5, 25°C cell temperature. Power Tolerance is +/- 5% W at STC. The electrical characteristics are within +/- 10% unless otherwise specified

2. Specifications are subject to change

FXTQ-32R



Physical Characteristics

Units	mm / kg	in / lb
Length	762	30
Width	371	14 ³ / ₅
Thickness*	3.35	7 ⁷ / ₁₀
Weight	1.36	3.0

*Panel at the junction box area 18mm

