SPEC SHEET SP440

SP440
Smarter Power 440

Power Manager (front) Power Pack (back)

Power Pack deployed

Remote Switch

POWER MANAGER	PM440
Dimensions	15”L x 5”W x 12”H
Weight	13.4 lbs.
Mounting	Floor or wall, infrequent access. Mount with or separate from Power Pack.
Solar Controller	
Technology	Ultra Fast Maximum Power Point Tracking
Wireless Data Comm.	Bluetooth to App.
PV Power @12vdc	220W
PV Power @24vdc	440W
Battery Types	LFP, Lead Acid, others
Charging voltage	Programmable
Solar Charge current	15A
Maximum OC voltage	75V
Peek Efficiency	98%
Load, monitored	15A
When solar present, output pwr. used for:	RV Loads w/boondocking Battery charging (Remote Switch controlled)
Lithium Ion Converter/Charger	
Input power	105-130vac, 60Hz
Max. input pwr., current	940W, 11A
Output Pwr., continuous	730W @13.6-14.6Volts
Rated DC current	50A
Charge Modes	2-stage intelligent charge, Absorption & Bulk modes
Absorption charge volts	13.6V
Bulk charge volts, <4hrs	14.6V
Protections	Current limiting & shut down; auto recovery, fuse for reverse polarity
When powered, output power. used for:	RV 12vdc Load power LFP battery charging (Remote Switch controlled)
Cooling fan	Off unless charging. Two speed microprocessor controlled based on load.
Safety	UL458 certified; FCC Class B (compliant)
Buss-bars	
Rated DC current	150A
Distributes power to:	Up to 4 batteries, High-current inverters, loads.

POWER PACK	
Enclosure Specs.	
Size, OD	16.5”L x 9.5”W x 13”H
Battery Size	Group 24 & 27
Mounting	Floor or wall, accessible
12vdc Accessary ports	2ea,, Both on single 15A manual reset breaker
12vdc screw terminals	1ea., 60A manual reset breaker
Battery Specifications	e-On EB-12125F
Chemistry	Lithium Iron Phosphate (LFP; LiFePO4), Prismatic
Cycle Life per DOD testing	2000-8000 cycles
Capacity	125AH
Nominal Voltage	12.8 Volts
Resting voltage, full charge	13.32 Volts
Energy Storage	1625 Wh
Wireless Data Comm.	Bluetooth BLE 4.0 or above
Charging Temp. Range	32dF-119dF, (140dF max)
Absorb Voltage	14.1 to 14.6 Volts
Float Voltage	13.6 to 13.8 Volts
Cell type	
Battery Protections: Intelligent Battery Management System (BMS) that controls operations against overcharging, over discharge, over current protection, over temperature protection and protects against ground faults	
Dimensions	12.5”L x 6.5”W x 8.5”H
Weight	34 pounds
REMOTE SWITCH	
Size	4.25”L x 3.25”W x 4.5”H
Function:	Allows charging control to avoid continuous and over-charging that can reduce battery lifespan.
Operation - Top ON	120vac and Solar charging
Operation - Center OFF	No charging
Operation - Bottom ON	Solar charging only