

Specifications

Specifications	Vented		Sealed
		PS1-3000	PS1-2500
Continuous Power Rating	At 40° C	3000VA	2500VA
	At 25° C	3600VA	3000VA
AC Voltage / Frequency Output		120VAC 60 Hz	120VAC 60 Hz
AC Input Current Maximum	AC Transfer Switch / System Bypass	50 amps AC	50 amps AC
	Battery Charger	20 amps AC with automatic back-off	16 amps AC with automatic back-off
Maximum AC Surge Current	Peak (1 millisecond)	70 amps AC	70 amps AC
	RMS (5 seconds)	50 amps AC	50 amps AC
Maximum PV Array Wattage		3300 watts DC stc rating	3300 watts DC stc rating
PV Open Circuit Voltage	Maximum	150VDC	150VDC
MPPT Input Voltage Range		44 to 135VDC	44 to 135VDC
PV Array Ground Fault Protection		Standard - 80 amp DC	Standard - 80 amp DC
Inverter Efficiency	Typical	91% (CEC Certified)	91% (not CEC Certified)
	Peak	93%	93%
MPPT Efficiency		98%	98%
Overall System Efficiency	Typical	89%	89%
	Peak	92%	92%
Battery Voltage - Nominal		48VDC	48VDC
Minimum / maximum operating range		40 to 60VDC	40 to 60VDC
Battery Charge Rate	Inverter	45 amps DC	35 amps DC
	MX60	60 amps DC	60 amps DC
AC Output Voltage Regulation	Typical	5%	5%
	Nominal	120VAC	120VAC
AC Output Current	Inverting	30.0 amps AC	25.0 amps AC
	Selling	25.0 amps AC	20.8 amps AC
Total Harmonic Distortion	Inverting	2% VAC THD	2% VAC THD
	Selling	< 5% current THD per UL1741 conditions	< 5% current THD per UL1741 conditions
AC Transfer Switch Speed	Typical	< 16 Milliseconds	< 16 Milliseconds
Battery Temperature Sensor		Included	Included
Operating Temperature Range		-40° C to 60° C (power derated above 25° C)	-40° C to 60° C (power derated above 25° C)
Recommended Minimum Energy Storage		4 kWhrs at 80% discharge	4 kWhrs at 80% discharge
Recommended Batteries		Four AGM type 31 or type 27 sealed VRLA	Four AGM type 31 or type 27 sealed VRLA
Communications		Optional MATE system display with RS232 port	Optional MATE system display with RS232 port
Enclosure Materials		Powdercoated aluminum with stainless steel hardware	Powdercoated aluminum with stainless steel hardware
Mounting		Wall mount, 16-inch on center studs	Wall mount, 16-inch on center studs
Recommended Mounting Hardware		5/16 x 2.5" Lag Bolts - three per side minimum	5/16 x 2.5" Lag Bolts - three per side minimum
System Enclosure Dimensions (HxWxD)	Unit	31.3 x 17.25 x 12.9" (80 x 44 x 33 cm)	31.3 x 17.25 x 12.9" (80 x 44 x 33 cm)
	Shipping	40.5 x 20.5 x 17.25" (103 x 52 x 44 cm)	40.5 x 20.5 x 17.25" (103 x 52 x 44 cm)
Battery Enclosure Dimensions (HxWxD)	Unit	36.25 x 17.25 x 12.55" (92 x 44 x 32 cm)	36.25 x 17.25 x 12.55" (92 x 44 x 32 cm)
	Shipping	43.25 x 20.25 x 16.75" (110 x 51 x 43 cm)	43.25 x 20.25 x 16.75" (110 x 51 x 43 cm)
System Weight	Unit	107 lbs (49 kg)	107 lbs (49 kg)
	Shipping	117 lbs (53 kg)	117 lbs (53 kg)
Battery Enclosure Weight (without batteries)	Unit	29 lbs (13 kg)	29 lbs (13 kg)
	Shipping	47 lbs (21 kg)	47 lbs (21 kg)
Certifications		ETL certified to the UL1741 standard	ETL certified to the UL1741 standard
Anti-Islanding Measures		UL1741 compliant	UL1741 compliant
Warranty		5 year limited repair warranty standard	5 year limited repair warranty standard
Field Installable Options		MATE or MATE2 remote system display	MATE or MATE2 remote system display
		OBAC breakers for additional AC load circuits OBPV breakers for PV array series string protection	OBAC breakers for additional AC load circuits OBPV breakers for PV array series string protection



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