



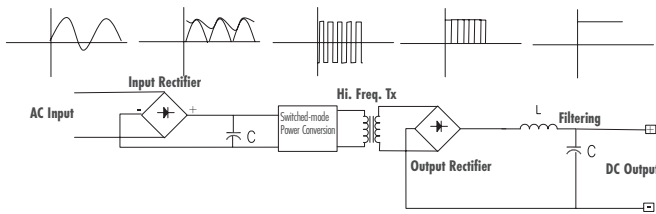
an EnerSys® company

ACS-WM 125VDC

Wall-Mount Switched-Mode Charger



- Modular switched-mode charger technology
- Accommodates up to six hot-swappable Cordex® 1.1kW power rectifier modules for N+1 redundancy capability
- Unity power factor with >93% efficiency
- Expandable to 52A output capacity
- Advanced communication capabilities
- Excellent DC output regulation
- High power density with a small compact enclosure
- High resolution touch screen color LCD display for control and monitoring



The ACS-WM 125VDC charger is designed to charge all types of stationary batteries (flooded lead-acid, VRLA and NiCad) for utility, petrochemical and industrial applications.

A compact 11RU enclosure accommodates up to six hot swappable, convection cooled Cordex® 1.1kW rectifier modules. The ACS Wall-Mount charger possesses high power density, providing the most power in the least amount of wall space and requires only a single step process to program using a touchscreen interface on the controller. Supported communication protocols include TCP/IP, Modbus, Ethernet, SNMP and optional DNP3.

ACS-WM 125VDC Charger Specifications

Electrical Input	
Nominal Voltage:	208 to 240VAC (single-phase)
Operating Voltage:	177 to 264VAC
Extended Voltage:	176 to 150VAC (derated to 75%), 265 to 320VAC (derated PF)
Phase:	Single
Frequency:	45 to 70Hz
Nominal Current:	8.8A / 17.6A / 26.4A / 35.2A / 44.0A / 52.8A
Power:	1100W / 2200W / 3300W / 4400W / 5500W / 6600W
Power Factor:	>0.99 (50 to 100% load)
THD:	<5% at 100% load
Efficiency:	>93% (50 to 100% load)

Electrical Output	
Voltage:	90 to 160VDC
Current:	8.8A module-nominal (11A max @ 100VDC)
Load Regulation:	Static <±0.5%
Line Regulation:	Static <±0.1%
Transient Response:	<±5% for 40 to 90% load step, 10ms recovery time
Ripple:	<20mVrms battery eliminator

Mechanical	Enclosure	Rectifier Module
Dimensions H × W × D (in/mm):	21.4 × 20 × 20.25 / 544 × 508 × 514	6.9 × 2.8 × 9.8 / 177 × 71 × 250
Weight (kg/lbs):	56.7 / 125	3.2 / 7.1
Cabinet:	NEMA 1 (black finish)	NEMA 1 (black finish)

Environment	
Operating Temperature:	Convection: -40 to 42°C (-40 to 104°F) Forced cooling: -40 to 45°C (-40 to 113°F)
Extended Temperature:	600W/module @ 65°C (149°F)
Storage Temperature:	-40 to 85°C (-40 to 185°F)
Humidity:	0 to 95% non-condensing
Elevation:	-500 to 4000m (-1,640 to 13,124ft); derate @ -4°C/1000m above sea level (-7.2°F/3281ft)
Audible Noise:	<55dBA @ 1m (3ft)
Cooling:	Convection (for 30A rating), forced (for >30A rating)
MTBF:	>400,000 hours
Heat Dissipation:	<300 BTU per each rectifier module

ACS Wall-Mount Part Numbers							
With DNP3 Card:	ACSWM-125-008-1	ACSWM-125-017-1	ACSWM-125-026-1	ACSWM-125-035-1	ACSWM-125-044-1	ACSWM-125-052-1	
Without DNP3 Card:	ACSWM-125-008-0	ACSWM-125-017-0	ACSWM-125-026-0	ACSWM-125-035-0	ACSWM-125-044-0	ACSWM-125-052-0	
AC Input:	Voltage: 208 to 250VAC Phase: Single-phase Frequency: 50 to 60Hz	Voltage: 208 to 250VAC Phase: Single-phase Frequency: 50 to 60Hz	Voltage: 208 to 250VAC Phase: Single-phase Frequency: 50 to 60Hz	Voltage: 208 to 250VAC Phase: Single-phase Frequency: 50 to 60Hz	Voltage: 208 to 250VAC Phase: Single-phase Frequency: 50 to 60Hz	Voltage: 208 to 250VAC Phase: Single-phase Frequency: 50 to 60Hz	Voltage: 208 to 250VAC Phase: Single-phase Frequency: 50 to 60Hz
DC Output Voltage (V):	125	125	125	125	125	125	
DC Output Current (A):	8.8	17.6	26.4	35.2	44	52.8	
Note:	Convection cooled	Convection cooled	Convection cooled	Convection cooled	Forced cooled	Forced cooled	

Standard Features	
<ul style="list-style-type: none"> Full graphic LCD touch screen with virtual alphanumeric keyboards (480x272 pixels) High interrupting current input and output breakers (10kAIC) Reverse polarity protection Current limit protection Soft start protection 	<ul style="list-style-type: none"> Battery temperature compensation probe (24ft to 3/8in lug) Thermal foldback/shutdown AC low line foldback/shutdown AV high voltage shutdown Input transient protection (MOV)

Communication Features	
<ul style="list-style-type: none"> SNMP/Modbus via Ethernet TCP/IP (IPv4 or 6) Access web user interface via internet browser through Ethernet port on CXC-HP controller Common Form C alarm relay contacts High voltage shutdown 	<ul style="list-style-type: none"> AC failure alarm High/low voltage alarm Charger failure alarm Ground fault alarm DC output failure alarm

Standard Functions	
Control Functions:	<ul style="list-style-type: none"> Automatic, scheduled or manual float charging (adjustable) Automatic, scheduled or manual equalize charging (adjustable) High/low voltage alarm setting (adjustable) Charge current limit (adjustable) Automatic or manual battery testing Battery capacity and runtime prediction Temperature compensation
Daily Statistics:	<ul style="list-style-type: none"> Minimum, maximum and average on input channels with date and time stamp Battery current, rectifier current and AC mains voltage for prior 90 days
Event Log:	On all events such as alarms, power on, any change of state of the digital inputs or other miscellaneous events
Battery Monitor:	Battery test

Options	
DNP3+ communication protocol	

Standards and Certifications	
Safety:	<ul style="list-style-type: none"> EN 60950 UL 60950-1 and UL 1012 CSAC22.2 No. 60950-1-03 CE EN 60950, CB Scheme Tekcordia (Bellcore) GR-1089-CORE NEMA PE 5-1997 (R2003)
EMC:	<ul style="list-style-type: none"> EN 55022 (CISPR 22) EN 61000-3-2 EN 61000-3-3 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11 ETS 300 019-1-1 ETS 300 019-1-2 ETS 300 753 IEC60950 ICES-003 Class B FCC Part 15 Class B FCC Part 68



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