

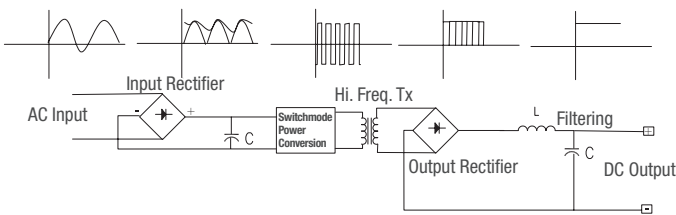
# ACS Wall-Mount Series

## 125VDC Switched-Mode Charger



52A version

Isolated Switch-Mode Charger



### Features:

- 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 Wall-Mount Series 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.

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

Electrical Output	
<b>Voltage:</b>	90 to 160VDC
<b>Current:</b>	8.8A module-nominal (11A Max @ 100VDC)
<b>Load regulation:</b>	Static <±0.5%
<b>Line regulation:</b>	Static <±0.1%
<b>Transient response:</b>	<±5% for 40 to 90% load step, 10ms recovery time
<b>Ripple:</b>	<20m Vrms battery eliminator

Mechanical	Enclosure	Rectifier Module
<b>Dimensions H x W x D (in/mm):</b>	20.4 x 20.0 x 14.2 / 1049 x 622 x 597	6.9 x 2.8 x 9.8 / 177 x 71 x 250
<b>Weight (kg/lbs):</b>	36 / 80	3.2 / 7.1
<b>Cabinet:</b>	NEMA 1 (black finish)	NEMA 1 (black finish)

Environment	
<b>Operating temperature:</b>	<b>Convection:</b> -40 to 42°C (-40 to 104°F) <b>Forced cooling:</b> -40 to 45°C (-40 to 113°F)
<b>Extended temperature:</b>	600W/module @ 65°C (149°F)
<b>Storage temperature:</b>	-40°C to 85°C (-40°F to 185°F)
<b>Humidity:</b>	0 to 95% non-condensing
<b>Elevation:</b>	-500 to 4000m (-1,640 to 13,124ft); derate @ -4°C/1000m above sea level (-7.2°F/3281ft)
<b>Audible noise:</b>	<55dBa @ 1m (3ft)
<b>Cooling:</b>	Convection (for 30A rating), forced (for >30A rating)
<b>MTBF:</b>	>400,000 hours
<b>Heat dissipation:</b>	< 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	
<b>AC Input:</b>	<b>Voltage:</b> 208 to 250VAC <b>Phase:</b> Single-phase <b>Frequency:</b> 50 to 60Hz	<b>Voltage:</b> 208 to 250VAC <b>Phase:</b> Single-phase <b>Frequency:</b> 50 to 60Hz	<b>Voltage:</b> 208 to 250VAC <b>Phase:</b> Single-phase <b>Frequency:</b> 50 to 60Hz	<b>Voltage:</b> 208 to 250VAC <b>Phase:</b> Single-phase <b>Frequency:</b> 50 to 60Hz	<b>Voltage:</b> 208 to 250VAC <b>Phase:</b> Single-phase <b>Frequency:</b> 50 to 60Hz	<b>Voltage:</b> 208 to 250VAC <b>Phase:</b> Single-phase <b>Frequency:</b> 50 to 60Hz	<b>Voltage:</b> 208 to 250VAC <b>Phase:</b> Single-phase <b>Frequency:</b> 50 to 60Hz
<b>DC output voltage (V):</b>	125	125	125	125	125	125	
<b>DC output current (A):</b>	8.8	17.6	26.4	35.2	44	52.8	
<b>Note:</b>	Convection Cooled	Convection Cooled	Convection Cooled	Convection Cooled	Forced Cooled	Forced Cooled	

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

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

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

Options	
DNP3+ communication protocol	

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



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