ACS-HP[™] Series







- Complete communication, system monitoring and control package
- Reduced operating costs: unity power factor with efficiency > 93%
- ➤ Wide input range: 187-312VAC single-phase or 208-480VAC three-phase
- High power density with a small overall footprint
- Expandable to 175A output capacity; power options to 800A available
- OSHPD certified

The Alpha Charging System High Performance Series provides excellent reliability and ultimate efficiency in meeting power requirements for many types of system applications.

The ACS-HP Series is designed to charge all types of stationary batteries (flooded lead acid, VRLA and NiCad) for industrial, utility, petrochemical and fire/utility applications.

Electrical Input	
Nominal Voltage:	208 to 250VAC (single-phase), 208 to 480VAC (three-phase)
Operating Voltage:	187 to 312VAC
Extended Voltage:	187 to 90VAC (derated)
Phase:	Single or three
Frequency:	45 to 70Hz
Current:	23A/module-nom. (130A Max@ 175ADC output)
Power:	4,400W continuous/module
Power Factor:	>0.99 (50 to 100% load)
THD:	<5%
Efficiency:	>93%

Electrical Output	
Voltage:	90 to 160VDC
Current:	35A.module-nom. (200A max @ 110VDC)
Load Regulation:	Static <±0.5%
Line Regulation:	Static <±0.1%
Transient Response:	<±5% for 40 to 90% load step, 30ms recovery time
Ripple:	±30m Vrms battery eliminator

Dimensions	Standard	XL
H x W x D (mm):	1049 x 622 x 597	1806 x 700 x 622
H x W x D (mm):	41.25 x 24.5 x 23.5	71.1 x 27.55 x 24.5
Weight (kg/lbs):	100 / 220 (105A system)	115 / 253 (105A system)
Cabinet:	NEMA 1 (black finish)	NEMA 1 (black finish)

Environment	
Standard Temperature:	-40°C to 50°C (-40°F to 122°F)
Extended Temperature:	-40°C to 75°C (-40°F to 167°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 2,800m (-1,640 to 9,186ft) to 4,000m (13,124ft) derated to 40°C (104°F)
Audible Noise:	<55dBa @ 1m (3ft)
Ventilation:	Forced Air / Convection
MTBF:	>350,000 hours

Standard Functions	
Control Functions:	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:	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 Log:	Battery health history on last 20 discharges, time of discharge and battery capacity

Standard Features

- Full graphic LCD touch screen with virtual alphanumeric and numeric keyboards
- Modbus Protocol
- · Reverse polarity protection
- · Current limit protection
- · Common Form C alarm relay contacts
- · AC failure alarm
- Charger failure alarm
- DC output failure alarm
- · High interrupting current input and output breakers
- Access GUI user interface via Internet browser through Ethernet port or RS-232 craft port on CXS controller
- AC and DC surge suppression
- · Soft start protection
- · High voltage shutdown
- High/low voltage alarm
- Positive/negative ground fault alarm
- Battery temperature compensation probe (12ft)

Options

Safety:

EMC:

- Low voltage disconnect
- Up to 10 x 2 pole, 5-60A breakers (10kA IC) with alarm monitoring
- DC output panel
- DNP3 level 2

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	• EN 60950	
	• III 60950-1 (pending	

- CSAC22.2 No. 60950-1-03 • CE EN 60950, CB Scheme
- Telcordia (Bellcore) GR-1089-CORE
- 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

Other Models





ACS XL 125VDC

ACS 48/125VDC HP-WM



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