

ACS-HP 125VDC

Modular Switched-Mode Industrial Charging System



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

The Alpha[®] High Performance Charging System 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. Available in standard and XL cabinet configurations, the ACS-HP series includes advanced features such as a full graphic LCD touchscreen and browser accessible GUI for advanced control and convenience and event logging.

ACS-HP 125VDC Specifications

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 @ 175VDC 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	
Mechanical	Standard	XL
Dimensions H × W × D (in/mm):	43 × 24 × 27.5 / 1083 × 606 × 699	71 × 27.9 × 24.5 / 1800 × 708 × 625
Weight (kg/lbs):	220 / 100 (105A system)	253 / 115 (105A system)
Cabinet:	NEMA 1 (black finish)	NEMA 1 (black finish)
Environment		
Standard Temperature:	-40° to 50°C (-40° to 122°F)	
Extended Temperature:	-40° to 75°C (-40° to 167°F)	
Storage Temperature:	-40° to 85°C (-40° to 185°F)	
Humidity:	0 to 95% non-condensing	
Elevation:	-500 to 2,800m (-1,640 to 9,186ft) to 4,	000m (13,124ft) derated to 40°(104°F)
Audible Noise:	<55dBa @ 1m (3ft)	AFLEM
Ventilation:	Forced air	
MTBF:	>350,000 hours	

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	
Standard Feat	ures	
Modbus Protocol Reverse polarity protection Current limit protection Common Form C alarm m AC failure alarm Charger failure alarm		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
DC output failure alarm Options Low voltage disconnect DC output panel	DA brenkers (10kA IC) with plarm mo	Positive/negative ground fault alarm Battery temperature compensation probe (12ft)
DC output failure alarm Dptions Low voltage disconnect O coutput panel Up to 10 × 2 pole, 5-60 DNP3 level 2	DA breakers (10kA IC) with alarm ma	Battery temperature compensation probe (12ft)
DC output failure alarm Options Low voltage disconnect DC output panel Up to 10 × 2 pole, 5-60		Battery temperature compensation probe (12ft) nitoring



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