

Raddrizzatore Antares - Digital Battery Charger / Rectifier

Antares is the digital battery charger/ rectifier and battery charger specifically designed for low power applications.

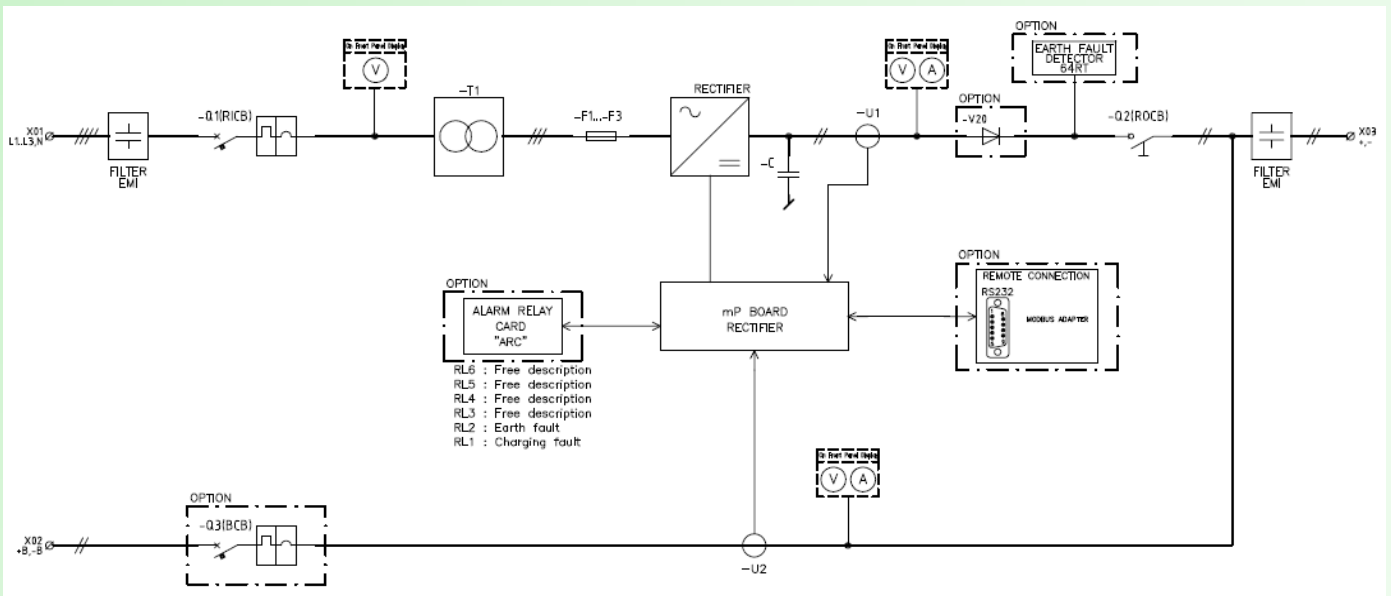
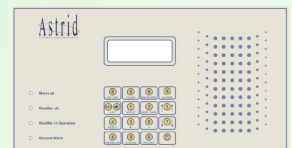
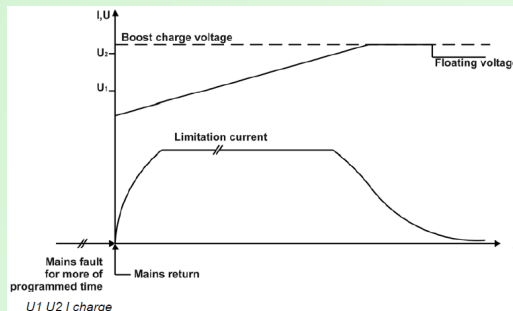
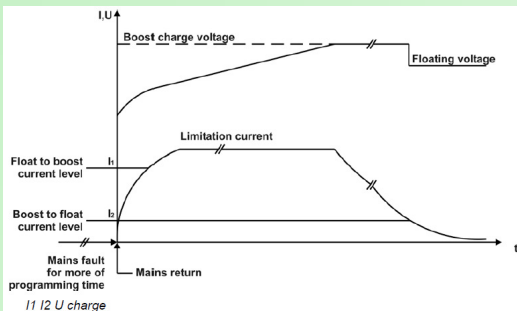
FEATURES

- Thyristor 6 pulses rectifier
- Input voltage : 400 Vac +/- 10 %
- Input current THD: < 30 %
- Output ripple: 2% (rms)
- DC Regulation: 1%
- Overload <120% 20mins, <150% 2mins, >150% 20secs
- Forced cooling
- EN60529 IP20 protection degree
- Battery MCB Adjustable Low Voltage Shunt trip
- Output blocking diode
- Earth fault monitoring
- Manual Boost and Auto Float/ Boost VRLA Battery capability



OPTIONS

- Other EN60529 IP rating
- Redundant Logic Board Power Supply
- Battery Temperature Probe
- Manual Boost and Auto Float/ Boost for Ni-Cd Battery
- Battery Low Voltage Disconnect (BLVD)



Raddrizzatore Antares - Digital Battery Charger / Rectifier 24Vdc

TECHNICAL SPECIFICATION

Antares Capacity (A)		50	100	150
Input Voltage (Vac)		380/ 400/ 415 (Factory Preset) +/- 10% 3 Wires		
Input Frequency (Hz)		50 - 60 Hz \pm 5Hz		
Input Short Circuit Current (@400VAC, IEC standard)		<15 KVArms		
Max. Input Power (KVA) @ 100% load Nominal Input		1.95	3.8	5.6
Input Currnt Distortion @ Nominal Load (% THD)		\leq 27% (6 Pulse Bridge)		
Input Power Factor @ Nominal Input Voltage, 100% Load		\geq 0.75		
Output Voltage	Nominal	24VDC		
	Float	2.25 - 2.27 Vpc for Sealed Lead Acid Battery (Adjustable) / 2.2 - 2.3 Vpc for Vented Lead Acid (Adjustable)/ 1.4 - 1.5 Vpc for Ni-Cd Battery		
	Boost	2.4 - 2.4527 Vpc for Vented Lead Acid (Adjustable)/ 1.4 - 1.5 Vpc for Ni-Cd Battery		
	Manual Equalise	2.35 Vpc for Sealed Lead Acid Battery (Adjustable) / 2.7 Vpc for Vented Lead Acid (Adjustable)/ 1.7 Vpc for Ni-Cd Battery		
Output Ripple		<2% rms (Others upon request)		
Output Capability		<120% for 20min/ <150% for 2min/ >150% for 20 sec		
Battery Recharging System		IU Charge acc. to DIN41773		
Efficiency @ Nominal Load	25%	\geq 63%		
	50%	\geq 70%		
	75%	\geq 74%		
	100%	\geq 82%		
Heat Dissipation @ Nominal Load		0.263	0.527	0.790
Acoustic Noise Level (dB)		<65 (acc. to EN50091)		
EMI		EN61000-6-2 (Immunity)/ EN61000-6-4 (Emission)		
Operating Temperature (°C)		-10 to +40		
Storage Temperature (°C)		-20 to +70		
Relative Humidity		<95% (Non-Condensing)		
Ventilation		Forced Air-cooled		
Altitude (M above sea-level)		<2000M (derating acc. to EN62040-3)		
Dimension		550 X 550 X 1300 (Wmm X Dmm X Hmm)		
Weight (Kg)		90	100	110
Input/ Output Cable Connection		Bottom		
Protection Degree (EN60529)		IP20		
Installation		300mm from ceiling, lateral and wall. Air-inlet from bottom and Air-outlet from top		

Raddrizzatore Antares - Digital Batter Charger / Rectifier 48Vdc

TECHNICAL SPECIFICATION

Antares Capacity (A)		50	100	150
Input Voltage (Vac)		380/ 400/ 415 (Factory Preset) +/- 10% 3 Wires		
Input Frequency (Hz)		50 - 60 Hz \pm 5Hz		
Input Short Circuit Current (@400VAC, IEC standard)		<15 KVArms		
Max. Input Power (KVA) @ 100% load Nominal Input		3.6	7.2	10.8
Input Currnt Distortion @ Nominal Load (% THD)		\leq 27% (6 Pulse Bridge)		
Input Power Factor @ Nominal Input Voltage, 100% Load		\geq 0.75		
Output Voltage	Nominal	48VDC		
	Float	2.25 - 2.27 Vpc for Sealed Lead Acid Battery (Adjustable) / 2.2 - 2.3 Vpc for Vented Lead Acid (Adjustable)/ 1.4 - 1.5 Vpc for Ni-Cd Battery		
	Boost	2.4 - 2.4527 Vpc for Vented Lead Acid (Adjustable)/ 1.4 - 1.5 Vpc for Ni-Cd Battery		
	Manual Equalise	2.35 Vpc for Sealed Lead Acid Battery (Adjustable) / 2.7 Vpc for Vented Lead Acid (Adjustable)/ 1.7 Vpc for Ni-Cd Battery		
Output Ripple		<2% rms (Others upon request)		
Output Capability		<120% for 20min/ <150% for 2min/ >150% for 20 sec		
Battery Recharging System		IU Charge acc. to DIN41773		
Efficiency @ Nominal Load	25%	\geq 65%		
	50%	\geq 73%		
	75%	\geq 76%		
	100%	\geq 85%		
Heat Dissipation @ Nominal Load		0.43	0.85	1.27
Acoustic Noise Level (dB)		<65 (acc. to EN50091)		
EMI		EN61000-6-2 (Immunity)/ EN61000-6-4 (Emission)		
Operating Temperature (°C)		-10 to +40		
Storage Temperature (°C)		-20 to +70		
Relative Humidity		<95% (Non-Condensing)		
Ventilation		Forced Air-cooled		
Altitude (M above sea-level)		<2000M (derating acc. to EN62040-3)		
Dimension		550 X 550 X 1300 (Wmm X Dmm X Hmm)		
Weight (Kg)		100	115	135
Input/ Output Cable Connection		Bottom		
Protection Degree (EN60529)		IP20		
Installation		300mm from ceiling, lateral and wall. Air-inlet from bottom and Air-outlet from top		

Raddrizzatore Antares - Digital Battery Charger / Rectifier 110Vdc

TECHNICAL SPECIFICATION

Antares Capacity (A)		30	50	60	75	80	100	125	150
Input Voltage (Vac)		380/ 400/ 415 (Factory Preset) +/- 10% 3 Wires							
Input Frequency (Hz)		50 - 60 Hz \pm 5Hz							
Input Short Circuit Current (@400VAC, IEC standard)		<15 KVArms							
Max. Input Power (KVA) @ 100% load Nominal Input		4.68	7.8	9.36	11.7	12.48	15.7	19.5	23.5
Input Currnt Distortion @ Nominal Load (%THD)		\leq 27% (6 Pulse Bridge)							
Input Power Factor @ Nominal Input Voltage, 100% Load		\geq 0.75							
Output Voltage	Nominal	110VDC							
	Float	2.25 - 2.27 Vpc for Sealed Lead Acid Battery (Adjustable) / 2.2 - 2.3 Vpc for Vented Lead Acid (Adjustable)/ 1.4 - 1.5 Vpc for Ni-Cd Battery							
	Boost	2.4 - 2.4527 Vpc for Vented Lead Acid (Adjustable)/ 1.4 - 1.5 Vpc for Ni-Cd Battery							
	Equalise (Manual Charge)	2.35 Vpc for Sealed Lead Acid Battery (Adjustable) / 2.7 Vpc for Vented Lead Acid (Adjustable)/ 1.7 Vpc for Ni-Cd Battery							
Output Ripple		<2% rms (Others upon request)							
Output Capability		<120% for 20min/ <150% for 2min/ >150% for 20 sec							
Battery Recharging System		IU Charge acc. to DIN41773							
Efficiemcy @ Nominal Load	25%	\geq 68%							
	50%	\geq 75%							
	75%	\geq 80%							
	100%	\geq 87%							
Heat Dissipation @ Nominal Load		0.493	0.822	0.986	1.233	1.315	1.644	2.055	2.466
Acoustic Noise Level (dB)		<65 (acc. to EN50091)							
EMI		EN61000-6-2 (Immunity)/ EN61000-6-4 (Emission)							
Operating Temperature (°C)		-10 to +40							
Storage Temperature (°C)		-20 to +70							
Relative Humidity		<95% (Non-Condensing)							
Ventilation		Forced Air-cooled							
Altitude (M above sea-level)		<2000M (derating acc. to EN62040-3)							
Dimension		550 X 550 X 1300 (Wmm X Dmm X Hmm)							
Weight (Kg)		115	145				175		
Input/ Output Cable Connection		Bottom							
Protection Degree (EN60529)		IP20							
Installation		300mm from ceiling, lateral and wall. Air-inlet from bottom and Air-outlet from top							

Raddrizzatore Antares - Digital Battery Charger / Rectifier 220Vdc

TECHNICAL SPECIFICATION

Antares Capacity (A)		30	50	60	75	80	100	125	150
Input Voltage (Vac)		380/ 400/ 415 (Factory Preset) +/- 10% 3 Wires							
Input Frequency (Hz)		50 - 60 Hz \pm 5Hz							
Input Short Circuit Current (@400VAC, IEC standard)		<15 KVArms							
Max. Input Power (KVA) @ 100% load Nominal Input		9.18	15.3	18.36	22.95	24.48	30.6	38.25	45.9
Input Current Distortion @ Nominal Load (% THD)		\leq 27% (6 Pulse Bridge)							
Input Power Factor @ Nominal Input Voltage, 100% Load		\geq 0,75							
Output Voltage	Nominal	220VDC							
	Float	2.25 - 2.27 Vpc for Sealed Lead Acid Battery (Adjustable) / 2.2 - 2.3 Vpc for Vented Lead Acid (Adjustable)/ 1.4 - 1.5 Vpc for Ni-Cd Battery							
	Boost	2.4 - 2.4527 Vpc for Vented Lead Acid (Adjustable)/ 1.4 - 1.5 Vpc for Ni-Cd Battery							
	Equalise (Manual Charge)	2.35 Vpc for Sealed Lead Acid Battery (Adjustable) / 2.7 Vpc for Vented Lead Acid (Adjustable)/ 1.7 Vpc for Ni-Cd Battery							
Output Ripple		<2% rms (Others upon request)							
Output Capability		<120% for 20min/ <150% for 2min/ >150% for 20 sec							
Battery Recharging System		IU Charge acc. to DIN41773							
Efficiency @ Nominal Load	25%	\geq 68%							
	50%	\geq 75%							
	75%	\geq 80%							
	100%	\geq 88%							
Heat Dissipation @ Nominal Load		0.90	1.50	1.80	2.25	2.40	3.00	3.75	4.50
Acoustic Noise Level (dB)		<65 (acc. to EN50091)							
EMI		EN61000-6-2 (Immunity)/ EN61000-6-4 (Emission)							
Operating Temperature (°C)		-10 to +40							
Storage Temperature (°C)		-20 to +70							
Relative Humidity		<95% (Non-Condensing)							
Ventilation		Forced Air-cooled							
Altitude (M above sea-level)		<2000M (derating acc. to EN62040-3)							
Dimension		550 X 550 X 1300 (Wmm X Dmm X Hmm)							
Weight (Kg)		150	180			240			
Input/ Output Cable Connection		Bottom							
Protection Degree (EN60529)		IP20							
Installation		300mm from ceiling, lateral and wall. Air-inlet from bottom and Air-outlet from top							