BATTERY CHARGER, 452440-S, LEAD ACID

SPECIFICATIONS	12 V	24 V	36 V	48 V
Available versions:	452440-SB	452440-SC	452440-SD	452440-SE
Input voltage:	90-264VAC			
Line frequency:	47-63Hz			
Max output power:	58W	74W	71W	76.5W
Step 0. <30min: Yellow	1.2A ±0.2A, when battery voltage <10.5V	0.6A ±0.2A, when battery voltage <21V	0.4A ±0.1A, when battery voltage <31.5V	0.3A ±0.1A, when battery voltage <42.0V
Step 0. >30min: Red (error-mode)	<0.2A			
Step 1. Constant current: Yellow	4.0A ±0.2A, when battery voltage >10.5V	2.5A - 0.2A + 0.05A, when battery voltage >21V	1.6A ±0.1A, when battery voltage >31.5V	1.3A ±0.1A, when battery voltage >42.0V
Step 2. Constant voltage: Flashing Yellow	14.7V ±0.1V and charge current is tapering	29.4V ±0.1V and charge current is tapering	44.1V ±0.2V and charge current is tapering	58.8V ±0.2V and charge current is tapering
Step 3. Maintenance voltage: Green	13.7V ±0.2V, supply current up to maximum 4.0A for possible parallel load	27.4V ±0.2V, supply current up to maximum 2.5A for possible parallel load	41.1V ±0.2V, supply current up to maximum 1.6A for possible parallel load	54.8V ±0.2V, supply current up to maximum 1.3A for possible parallel load
Charge timer (Step 2):	4h			
Safety timer:	72h			
Restart charge current:	4.0A	2.5A	1.6A	1.3A
Formation charge:	Low current start-up of deeply discharged battery			
Float charge:	4.0A pulses at safe float voltage level for maximum topping of battery capacity	2.5A pulses at safe float voltage level for maximum topping of battery capacity		1.3A pulses at safe float voltage level for maximum topping of battery capacity
Indication when "battery not connected":	Flashing Green (1s/1s)			
Temperature compensation of charge voltage:	-3 to -4mV/°C pr. cell	-3 to -4mV/°C pr. cell	-	-3 to -4mV/°C pr. cell
Ripple:	<100mV p-p			
Efficiency (at 100% load, 90V) approx.:	>85%	>83%	>85%	
Switch frequency approx.:	40kHz			
Leakage current from battery with mains switched off:	<200µA at 13V battery voltage (0.15Ah/month)	<200µA at 26V battery voltage (0.15Ah/month)		<200µA at 52V battery voltage (0.15Ah/month)
Protection:	Protected against reversed polarity and short circuit proof. Safety timer. Charging of wrong lower voltage battery pack (e.g. 12V) will be limited to 0.6A and terminated after 30min.			
Temperature range:	**Operating:** -25 to +40°C / **Storage:** -25 to +85°C			
Safety:	**Medical EN** 60601-1 / **Home Health Care EN** 60601-1-11 / **Battery Charger EN** 60335-2-29			
Insulation class:	Class II			
Insulation voltage (primary–secondary):	4000VAC/5700VDC			
EMC standards:	**EN** 55014-1 and –2 / **Emission EN** 61000-6-3 / **Immunity EN** 61000-6-1, **EN** 60601-1-2			**EN** 55014-1 and -2 / **Emission EN** 61000-6-3 / **Immunity EN** 61000-6-1, **EN** 60601-1-2
Input terminal:	2-pins IEC 320 connector			
Output terminals:	Battery clips, Push-on terminals or DC connector			
IP-Grade:	41			
Rec. battery capacity:	20-200Ah	12-125Ah	7-70Ah	
Dimensions:	135×80×44 mm			
Weight:	390g			610g

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