

## FLAT B Battery Chargers Technical Specifications

MODEL	EFB-12xx	EFB-24xx	EFB-48xx	EFB-110xx	EFB-3F-24xx	EFB-3F-48xx	EFB-3F-110xx
Power	0.2 - 3 kVA	0.5 - 3 kVA	1 - 5 kVA	1 - 6 kVA	3 - 10 kVA	5 - 20 kVA	5 - 40 kVA
Power Factor	0.6						
<b>INPUT</b>							
Input Voltage	220 VAC 1 Phase + Neutral+Ground				380 VAC 3 Phase +Neutral +Ground		
Input Voltage Tolerance	+ %15 , -%20						
Input Protection	Suitable 1 phase MCB fuse				Suitable 3 phase MCB fuse		
Input Current	1 - 15 A	3 - 15 A	3 - 30 A	6 - 40 A	6 - 20 A	10 - 40 A	10 - 80 A
Input Frequency	50 Hz. $\pm$ %5 (optional - 60 Hz.)						
Input Filter	Optional - Input RFI ve EMI filters						
<b>OUTPUT</b>							
Nominal Output Voltage	13.7 VDC	27.5 VDC	54 VDC	120 VDC	27.5 VDC	54 VDC	120 VDC
Nominal Output Current	15 - 120 A	15 - 80 A	10 - 80 A	10 - 60 A	80 - 250 A	80 - 250 A	50 - 250 A
Output Voltage Tolerance	$\pm$ %1						
Output Current Limiting	Electronical current limiting at 115 % load						
Short Circuit Protection	Input /output fuses						
Efficiency (100% Load)	%90						
Crest Factor	3:1						
Over Load	at 0 % - 100 % load, operates continuously up to 125% load electronical current limiting						
Protection	Electronical warnings and protection for ; High Output Voltage , Low Output voltage , Over Temperature and Over Load						
Communication	RS-232 communication port (optional) - dry contact (optional)						
Display	Input Voltage, Output Voltage, Output Current can be seen on LCD display. Additionally; written warnings for over current, over temperatura, input failure, output failure and general failure - (failure record optionally)						
Connection Accesories	Suitable terminals for input, output, battery and alert contact						
<b>GENERAL</b>							
Maksimum Temperature	-10 °C ~ +40 °C						
Altitude	2000m						
Hummidity	%90						
Acoustic Noise	< 50 dBA						
Dimension [WxDxH] -cm	45 x 40 x 55				55 x 80 x 120		